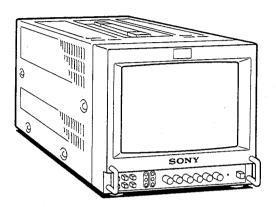
# **SERVICE MANUAL**



## AEP Model

Chassis No. SCC-F09R-A PVM-9044QM Chassis No. SCC-F09A-A

SP 00151

### **SPECIFICATIONS**

## Video signal

Color system

PAL, SECAM, NTSC<sub>3.58</sub>, NTSC<sub>4.43</sub>

Resolution

PVM-9044QM: 450 TV lines PVM-9041QM: 250 TV lines

Aperture correction -4.0 dB - +6.0 dB (at 3.0 MHz)

Frequency response 6.0 MHz (-3.0 dB) at all inputs Synchronization

AFC time constant 1.0 msec.

## Picture performance

Normal scan

6% over scan of CRT effective screen

area

Underscan

3% underscan of CRT effective screen

area

H. linearity

Less than 7.0% (typical)

V. linearity

Less than 7.0% (typical)

Convergence

Central area: 0.43mm (typical)

Peripheral area: 0.53mm (typical)

Raster size stability H: 1.0%, V: 1.5% High voltage regulation

3.0%

Color temperature

D65

## **Inputs and Outputs**

Inputs

Y/C IN: 4-pin mini DIN connector

(See the pin assignment on page 2.)

VIDEO IN: BNC connector 1 Vp-p ± 6dB, sync negative AUDIO IN: phono jack, -5 dBs, less

than 47k ohms

R/R-Y, G/Y, B/B-Y: BNC connector R, G, B channels: 0.7 Vp-p, ±6 dB Sync on green: 0.3 Vp-p, negative,

75 ohms terminated

R-Y, Y, B-Y channels: 0.7 Vp-p, ±6 dB (Standard color bar signal of 100%

chrominance)

EXT SYNC IN: BNC connector Composite sync 4 Vp-p, ±6 dB,

negative

Loop-through outputs Y/C OUT: 4-pin mini DIN connector

VIDEO OUT: BNC connector. 75 ohms terminated AUDIO OUT: phono jack Output level 0.5 W

EXT SYNC OUT: BNC connector,

75 ohms terminated

Tally/remote input

TALLY/REMOTE: 8-pin mini DIN connector (See the pin assignment

on page 2.)

## General

Power consumption 43 W at AC operation

40 W at DC operation

- Continued on next page -



TRINITRON® COLOR VIDEO MONITOR SONY

## PVM-9041QM/9044QM

Power requirements 100 - 240 V AC, 50/60 Hz (for all

models)

12 V DC, with the Sony (NP-1A/1B) battery pack (not supplied) or AC-500/500CE AC power adaptor

(not supplied)

Operating temperature range

0 - 35 °C

Storage temperature range

-10 - +40 °C

Humidity

0 - 90%

Dimensions

Approx. 217 x 217 x 352.5 mm (w/h/d)

(8 5/8 x 8 5/8 x 14 inches)

not incl. projecting parts and controls

Weight

Approx. 7.8 kg (17 lb 3 oz)

not incl. battery packs

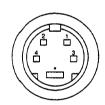
Accessory supplied AC power cord (1)

Cable with an 8-pin connector

Design and specifications are subject to change without notice.

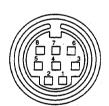
## Pin Assignment

## Y/C IN connector (4-pin mini DIN)



Pin No.	Signal Description	
1	Y-input	1 Vp-p, sync negative, 75 ohms
2	CHROMA sub-carrier- input	300 mVp-p, burst Delay time between Y and C: within 0±100 nsec., 75 ohms
3	GND for Y-input	GND
4	GND for CHROMA- input	GND

## TALLY/REMOTE connector (8-pin mini DIN)



Pin No.	Signal
1	Blue only
2	H/V delay
3	GND
4	INT/EXT SYNC
5	Tally
6	Underscan/normal scan
7	A/B or RGB/Y R-Y B-Y
8	RGB/LINE

For remote control, connect the pin of the desired function to pin 3 (GND).

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### (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAPTOTHE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

#### WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

## **SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

# SECTION 1 GENERAL

## 1-1. FEATURES

## Four color systems available

The monitor can display PAL, SECAM, NTSC<sub>3.58</sub> and NTSC<sub>4.43\*</sub> signals. The appropriate color system is selected automatically.

\* A signal of NTSC<sub>4.43</sub> is used for playing back NTSC recorded video cassettes with a video tape recorder/player especially designed for use with this system.

## **Super Fine Pitch Trinitron picture tube**

(PVM-9044QM only)

The Super Fine Pitch Trinitron picture tube provides a high resolution picture. Horizontal resolution is more than 450 TV lines at the center of the picture.

## Blue only picture

The picture can be displayed in blue and black only. This facilitates hue adjustment and the observation of video noise.

## **Analog RGB/component input connectors**

Analog RGB or component (Y, R-Y and B-Y) signals from video equipment can be input through these connectors.

## Y/C input connector

The video signal, split into the chrominance signal (C) and the luminance signal (Y), can be input through this connector, eliminating the interference between the two signals, which tends to occur in a composite video signal, assuring video quality.

## Beam current feedback circuit

The built-in beam current feedback circuit assures stable white balance.

## Comb filter

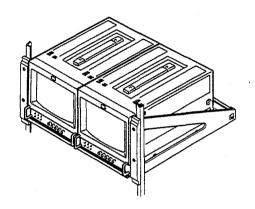
When NTSC video signals are received, a comb filter activates to increase the resolution, resulting in fine picture detail without color spill or color noise.

# The Y/C, VIDEO IN and EXT SYNC IN connectors are terminated at 75 ohms inside, when no cable is connected

terminated at 75 ohms inside, when no cable is connected to the loop-through output connectors. When a cable is connected to an output connector, the 75-ohm termination is automatically released.

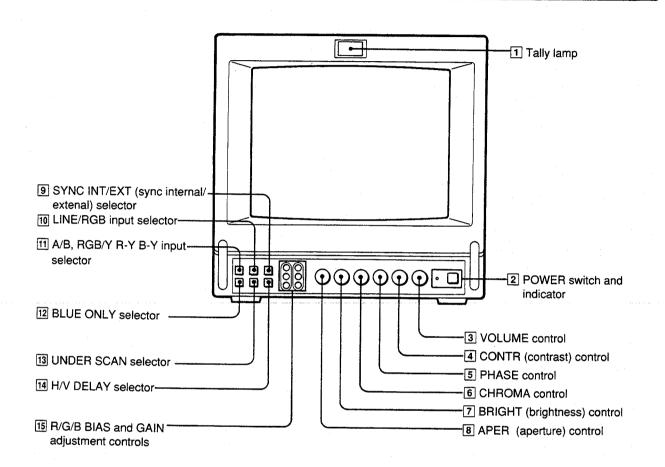
## EA Standard 19-Inch rack mount

By using an MB-507 mounting bracket (not supplied), the monitor can be mounted in an EIA standard 19-inch rack. For details on mounting, see the instruction manual of the MB-507.



## 1-2. LOCATION AND FUNCTION OF PARTS AND CONTROLS

## **Front**



## 1 Tally lamp

#### 2 POWER switch and indicator

Depress to turn the monitor on. The indicator will light up in green.

The POWER indicator also functions as the battery indicator. When the internal battery becomes weak or the power supplied through the DC12V IN jack decreases, the indicator flashes.

### 3 VOLUME control

Turn this control clockwise or counterclockwise to obtain the desired volume.

## 4 CONTR (contrast) control

Turn clockwise to make the contrast stronger and counterclockwise to make it weaker.

## 5 PHASE control

This control is effective only for the NTSC<sub>3.58</sub> and NTSC<sub>4.43</sub> color systems. Turn clockwise to make the skin tones greenish and counterclockwise to make them purplish.

#### Notes

- The PHASE, CHROMA and APER control settings have no effect on an analog RGB signal.
- The PHASE control has no effect on component singals.
- The PHASE control setting is effective only for the NTSC system.

## 6 CHROMA control

Turn clockwise to make the color intensity stronger and counterclockwise to make it weaker.

## 7 BRIGHT (brightness) control

Turn clockwise for more brightness and counterclockwise for less.

#### 8 APER (aperture) control

Turn clockwise for more sharpness and counterclockwise for less.

## 9 SYNC INT/EXT (sync internal/external) selector

Keep this button released (INT) to operate the monitor on the sync signal from the displayed composite video signal.

Depress this button (EXT) to operate the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel.

10 LINE/RGB input selector

Select the program to be monitored. Keep this button released (LINE) for a signal fed through the LINE A or LINE B connectors. Depress this button (RGB) for a signal fed through the RGB connectors.

111 A/B, RGB/Y R-Y B-Y input selector
When the LINE/RGB input selector is set to LINE,
keep this button released (A) for a signal fed through the
LINE A connectors. Depress this button (B) for a signal
fed through the LINE B connectors.

When the LINE/RGB input selector is set to RGB, select the RGB signal or the component signal which is fed through the RGB input connectors. Keep this button released (RGB) for the RGB signal. Depress this button (Y R-Y B-Y) for the component signal.

### 12 BLUE ONLY selector

Depress this button to turn off the red and green signals. A blue signal is displayed as an apparent monochrome picture on the screen. This facilitates "chroma" and "phase" control adjustments and the observation of video poise.

13 UNDER SCAN selector

Depress this button for underscanning. The display size is reduced by approximately 3% so that four corners of the raster are visible.

## 14 H/V DELAY selector

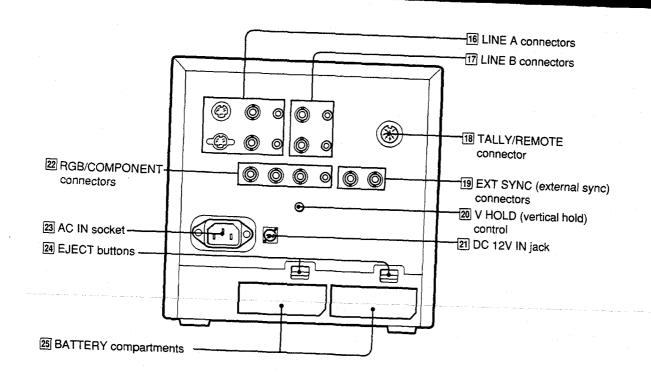
Depress this button to observe the horizontal and vertical sync signals at the same time. The horizontal sync signal is displayed in the left quarter of the screen; the vertical sync signal is displayed near the center of the screen.

15 R/G/B BIAS and GAIN adjustment controls
Used for white balance fine adjustment.
BIAS and GAIN controls are provided for the R (red),
G (green) and B (blue) screens.

BIAS: Adjust the white balance and brightness of the screen at the lowlight.

GAIN: Adjust the white balance and brightness of the screen at the highlight.

## Rear



## 16 LINE A connectors

To monitor the signal fed through these connectors, keep the LINE/RGB selector and the A/B, RGB/Y R-Y B-Y selector on the front panel released (LINE and A).

#### Note

The Y/C IN connector has a priority over the VIDEO IN connector.

When a plug is connected to the Y/C IN connector, the VIDEO IN connector is automatically disconnected.

## 17 LINE B connectors

To monitor the signal fed through these connectors, keep the LINE/RGB selector released (LINE) and depress the A/B, RGB/Y R-Y B-Y selector (B) on the front panel.

VIDEO IN (BNC): Connect to the video output of a video camera, VCR or other video equipment.

VIDEO OUT (BNC): Loop-through output of the VIDEO IN connector. Connect to the video input of a VCR or another monitor.

AUDIO IN (phono jack): Connect to the audio output of a VCR or a microphone (through a suitable microphone amplifier).

AUDIO OUT (phono jack): Loop-through output of the AUDIO IN connector. Connect to the audio input of a VCR or another monitor.

## 18 TALLY/REMOTE connector (8-pin mini DIN)

Connect to the tally output of a control console, special-effect generator, etc. The tally lamp on the front panel will be turned on and off by the connected equipment. This connector can be used for connecting a remote controller. For the pin assignment of this connector, see "Specifications" on page 2.

## 19 EXT SYNC (external sync) connectors

IN (BNC): When this monitor operates on an external sync signal, connect the reference signal from a sync generator to this connector. In this case, depress the SYNC INT/EXT selector (EXT) on the front panel.

OUT (BNC): Loop-through output of the EXT SYNC IN connector. Connect to the external sync input of video equipment to be synchronized with this monitor.

## 20 V HOLD (vertical hold) control

Turn to stabilize the picture if it rolls vertically.

## 21 DC 12V IN jack (XLR, 4 pin)

Connect the Sony AC-500/500CE AC power adaptor (not supplied).

#### 22 RGB/component input connectors

## R/R-Y, G/Y, B/B-Y (BNC), AUDIO (phono):

To monitor a signal fed through these connectors, depress the LINE/RGB selector on the front panel (RGB). When the SYNC INT/EXT selector on the front panel is released (INT), the monitor operates on the sync signal from the G/Y channel.

### To monitor the analog RGB signal

Connect to the analog RGB signal outputs of a video camera having no sync signal. Keep the A/B, RGB/Y R-Y B-Y selector on the front panel released (RGB).

## To monitor the component signal

Connect to the R-Y/Y/B-Y component signal outputs of a Sony BetaCam video camera. Depress the A/B, RGB/Y R-Y B-Y selector on the front panel (Y R-Y B-Y).

#### 23 AC IN socket

Connect the supplied AC power cord to this socket and to a wall outlet.

#### 24 EJECT buttons

Press the EJECT button upwards to remove the battery pack.

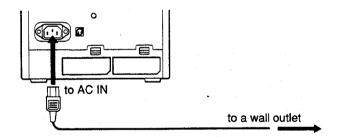
## **25 BATTERY compartments**

Insert the NP-1A/1B battery pack (not supplied).

## 1-3. POWER SOURCES

## House Current

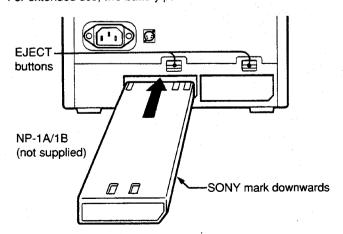
Connect the supplied AC power cord to the AC IN socket and to a wall outlet.



When the AC power cord is plugged into the AC IN socket, the battery pack (if installed) or the AC power adaptor (if connected) is automatically disconnected.

## Rechargeable Battery

The monitor can operate with one or two battery packs. For extended use, two battery packs are recommended.



To remove the battery pack, press the EJECT button upwards.

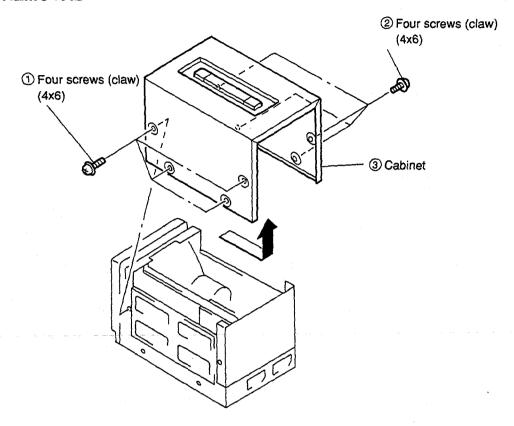
For charging, use the BC-1WA battery charger (not supplied) for the NP-1A or the BC-1WB for the NP-1B.

### Note

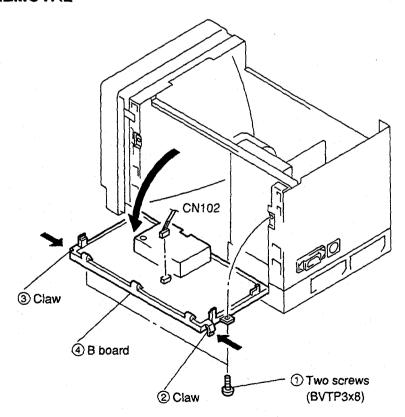
Make sure that the AC power cord and the AC power adaptor are disconnected from the monitor. Otherwise, the monitor cannot operate on the battery pack(s).

# SECTION 2 DISASSEMBLY

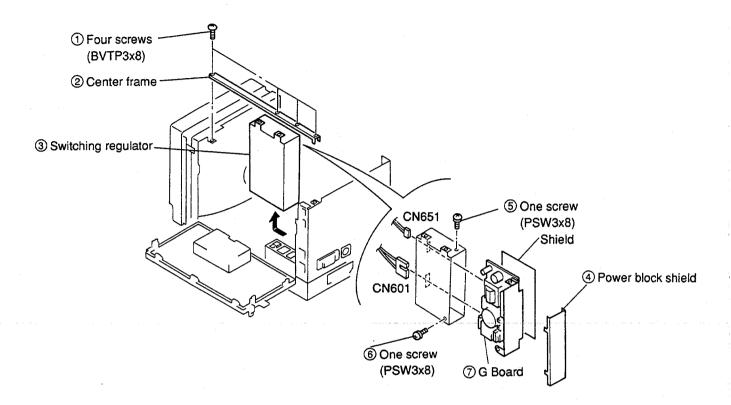
## 2-1. CABINET REMOVAL



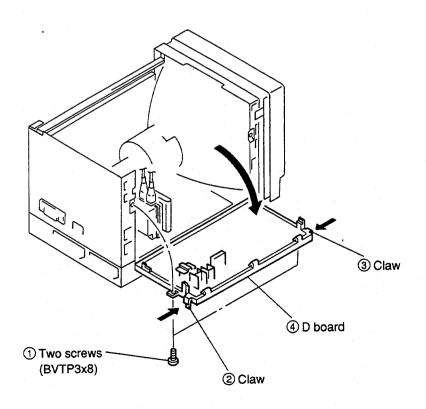
## 2-2. B BOARD REMOVAL



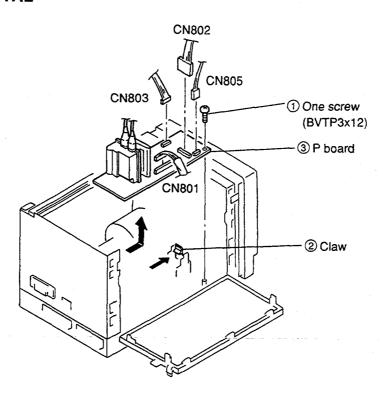
## 2-3. SWITCHING REGULATOR REMOVAL



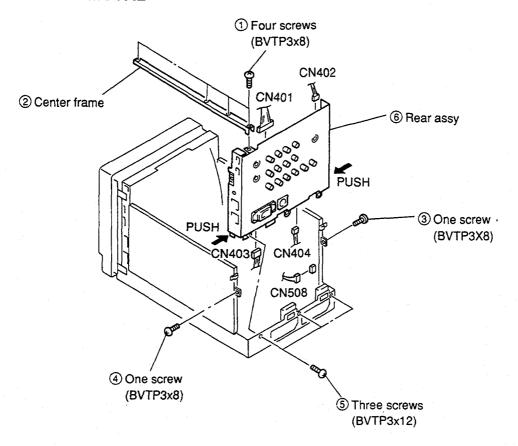
## 2-4. D BOARD REMOVAL



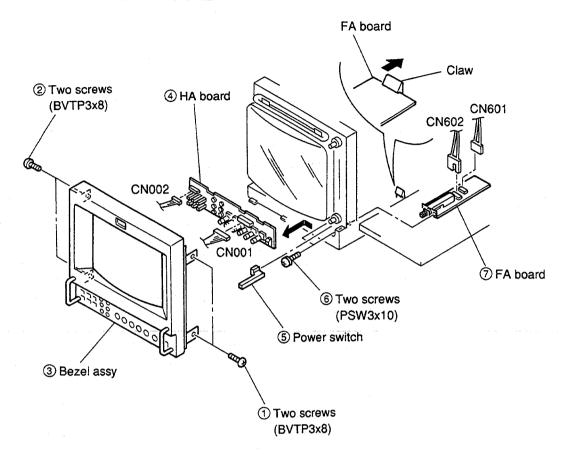
## 2-5. P BOARD REMOVAL



## 2-6. REAR ASSY REMOVAL



## 2-7. HA AND FA BOARDS REMOVAL



## 2-8. PICTURE TUBE REMOVAL

Note: Caution for ANODE CAP installation.

When you replace PICTURE TUBE or FBT, remove RTV on ANODE CAP so that PICTURE TUBE and FBT can be separated. Please adhere picture tube and anode cap in accordance with the following procedure.

### ADHERING PROCEDURE OF ANODE CAP.

- Clean PICTURE TUBE ANODE CAP with ethnaol to remove original RTV.
- 2. Dry clean face with air.

 Use KE-490RTV (RTV silicone adhesive, SHIN-ETSU CHEMICAL).

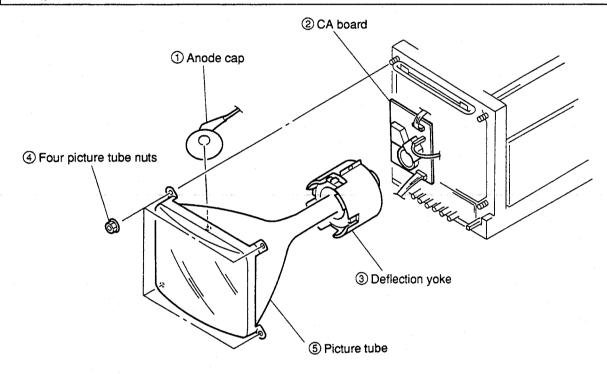
Part. No.

Description

7-322-065-19

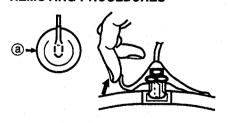
Silicone (RTV) KE-490W

- 4. Install ANODE CAP.
- Adeguately apply RTV to the entire picture tube anode area, piace the anode cap onto the picture tube and push it down securety so that no air pockets remain beneath the cap.
- 6. Dry more than 12 hours at room temperature.

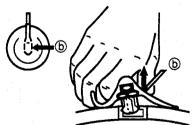


## REMOVAL OF ANODE-CAP

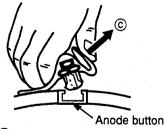
· REMOVING PROCEDURES



Turn up one side of the rubber cap in the direction indicated by the arrow a.



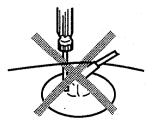
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.

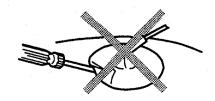


When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

### HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
  - A metal fitting called as shatter-hook terminal is built in the rubber.
- 3 Don't turn the foot of rubber over hardly!





# SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

CONTRAST control	. 80%
BRIGHTNESS control	.50%

Perform the adjustments in order as follows:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White Balance

Note: Test equipment Required.

- 1. Color Bar/Pattern Generator
- 2. Degausser
- 3. Color Analyzer (Minolta)
- 4. Luminance Level Meter

## 3-1. BEAM LANDING

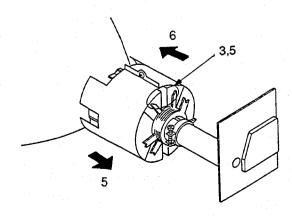
#### Precaution

- 1. Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force
- 2. Turn the power switch for the unit ON and erase the magnetic force using a degausser.

### (1) Beam Landing

- 2. Adjust the white balance, G2 voltage and convergence roughly.
- 3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.3-1.
- 4. Switch over the pattern generator to green.
- 5. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and blue and red are at the sides, evenly. (Fig.3-2)
- 6. Move the deflection yoke forward, and adjust so that the entire screen becomes green. Repeat 5 to 7 as to red and blue.
- 7. When landing at the corners is not right, correct by using the magnet. (Fig. 3-3)
- 8. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.

CAUTION: When correction magnet is used, be sure to degauss the unit.



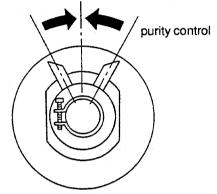


Fig.3-1

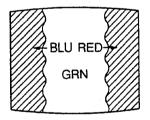
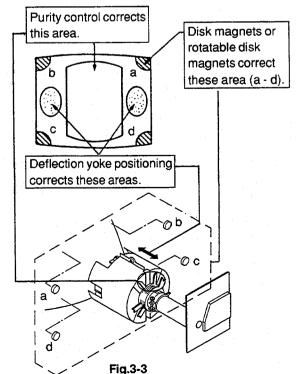


Fig.3-2

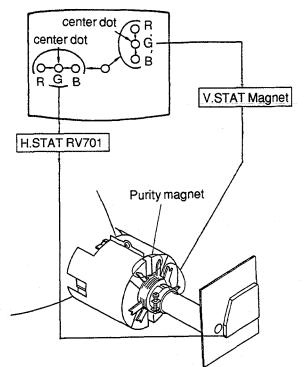


## 3-2. CONVERGENCE

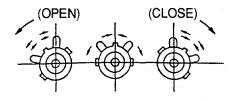
- (1) Horizontal and vertical Static Convergence Adjustment on the Center of Screen.
- Before starting, perform V. SIZE, V. CENT, H.SIZE, H.CENT and Screen Distortion Adjustment rightly.

## (Static Convergence Adjustment)

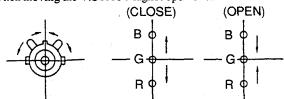
- 1. Receive a dot signal, setting BRIGHTNESS minimum and set CONTRAST to normal.
- Adjust H.STAT VR to coincide red, green and blue dots on the center of screen. (Horizontal movement)
- Adjust V.STAT magnet to coincide red, green and blue dots on the center of screen. (Vertical movement)



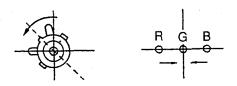
\* If the red, green and blue dots do not coincide on the center of screen with H.STAT VR, perform adjustment using V.STAT at the same time while tracking. (Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.)



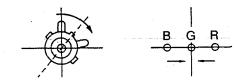
- 4. When the V.STAT magnet is moved in the direction of arrow A and b, red, green and blue dots move as shown below.
- 1 When moving the V.STAT Magnet open or close.



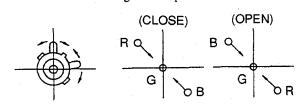
2 When moving the V.STAT magnet counterclockwise.



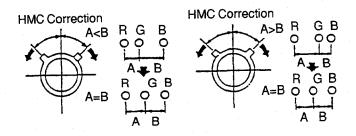
3 When moving the V.STAT magnet clockwise.



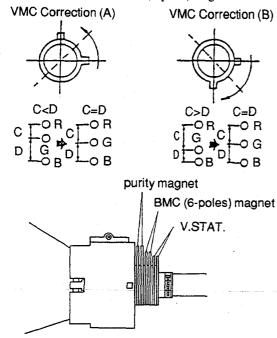
4 When tilt the V.STAT magnet and open or close.



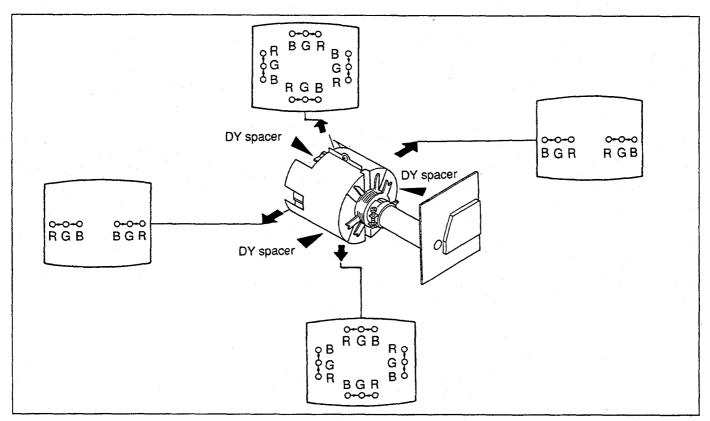
- \* If the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.
- 5. HMC and VMC correction for BMC (6-Poles) magnet.
- 1 HMC (Horizontal Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.



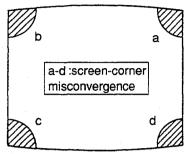
② VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

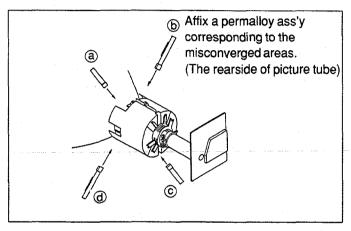


- (2) Horizontal and Vertical Dynamic Convergence Adjustment at the Environs of the Screen (Dynamic Convergence Adjustment)
- 1. When there is misconvergence at the sides of screen, adjust for best convergence as follows by moving the deflection yoke.
- Loosen deflection yoke screw. Remove deflection yoke spacers.
   Move the deflection yoke for best convergence. Tighten the deflection yoke screw. Install three deflection yoke spacers.



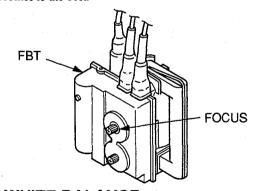
## Screen-corner Convergence





## 3-3. FOCUS

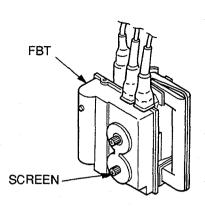
- 1. Receive the broadcast.
- 2. CONTRAST → Normal
- Adjust FOCUS control so that the focus on the center of screen becomes to the best.



## 3-4. WHITE BALANCE

## [Screen (G2) Voltage Adjustment]

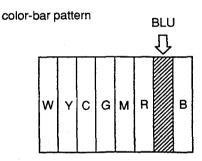
- 1. Receive a dot signal with the pattern generator.
- 2. Adjust R. G. B cut-off controls so that respective cathode voltage against ground becomes 103V DC.
- Observing the screen, adjust SCREEN control so that the background of the dot signal is bright dimly.



## [White Balance]

- 1. Receive a color-bar pattern signal with the pattern generator.

  (Make black and white screen by chroma switch off.)
- BRIGHTNESS ......50%
- CONTRAST ..... Minimum
- CHROMA .....50%
- DRIVE control ..... Mechanical center
- BKG control ..... Mechanical center
- 3. Adjust RV118 (SUB BRT) on B board so that the blue stripe portion on the color-bar pattern signal is bright dimly.



- 4. Receive an entirely white signal from the pattern generator.
- 5. CONTRAST ......70% (90 degree clockwise from mechanical center.)
- 6. Using the luminance level meter, adjust the luminance level of the pattern generator becomes 3 Nits. (The condition the screen is bright dimly.)
- Adjust white balance at cut-off using RV119 (G-C/O) and RV121 (B-C/O).
- 8. Change the all-white signal luminance level to 100 IREs.
- Adjust white balance at high-light using RV120 (G-GAIN) and RV121 (B-GAIN).
- 10. Change the unit to blue ONLY mode.
- 11. Adjust white balance (at high-light) in blue ONLY mode using RV124\*R-GAIN/BL) and RV125 (G-GAIN/BL).
- 12. Using the luminance level meter, adjust the luminance level of the pattern generator becomes 8 Nits. Confirm that white balance at cut-off is satisfactory..

# SECTION 4 SAFETY RELATED ADJUSTMENT

## 4-1. SAFETY RELATED ADJUSTMENTS

## B+ ADJUSTMENT AND B+ MAX CHECK FOR SERVICING ( ☑ RV651)

The following adjustments should always be performed when replacing the following components (marked with  $\square$  on the schematic diagram).

☐ on G board: (Power supply block)
IC601, IC651, PH601, C654, R653, R655, R656, R657, RV651.

- 1. Input the AC power supply voltage  $240V_{-0}^{+1}V$ .
- 2. Input the monoscope signal.
- 3. Set as follows.
  - CONTRAST .....80%
  - BRIGHTNESS ......50%
- 4. Connect the digital multimeter to RY1601 pin-7 on the D board.
- Adjust RV651 on the G board so that the +B voltage becomes 40.0 ± 0.1 V.
- 6. After adjusting RV651, fix it with an epoxy.
- 7. Input the AC power supply voltage  $240V_{-0}^{+1}V$ .
- 8. Input the dot signal.
- 9. Set as follows.
  - CONTRAST ...... Minimum
  - BRIGHTNESS ..... Minimum
- 10. Check that the B+voltage is below 41.9V. If it is above this value, repeat from step 1.

## B+ MAX IN DC POWER INPUT MODE, CONFIRMATION ( ► RV1603)

The following adjustments should always be performed when replacing the following components (marked with  $\square$  on the schematic diagram).

### on D board:

Q1601, Q1602, Q1603, D1601, D1602, D1603, D1604, D1605, C1601, C1602, R1601, R1602, R1603, R1604, R1605, R1606, R1607, R1608, R1629, R1628, R1630, RV1601, RV1603.

- 1. Supply DC  $12V_{-0}^{+0.4}$  V from DC 12V IN connector.
- 2. Receive a dot signal.
- 3. CONTRAST ..... Minimum
  - BRIGHTNESS ..... Minimum
- 4. Connect a digital multimeter to C1605 positive + side of D board.
- 5. Turn RV1601 on the D board fully clockwise. Confirm that the voltage of C1605 + pin is less than 41.9V DC.
- 6. If step 5 is not satisfied, readjust the RV1603. After adjusting, fasten RV1603 in place with epoxy.

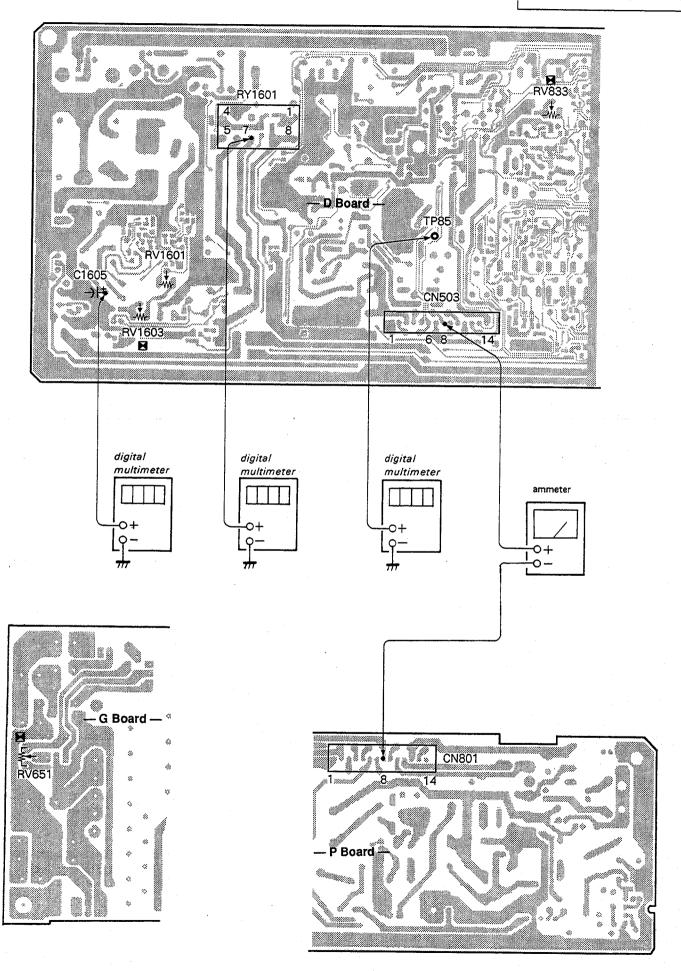
## HOLD-DOWN CIRCUIT CONFIRMATION (☐ RV833) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with  $\square$  on the schematic diagram).

#### on D board:

IC502, Q833, Q834, Q835, Q836, D835, D836, C519, C843, C844, C845, C846, C847, C848, RV833, R523, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R861, R862, R863.

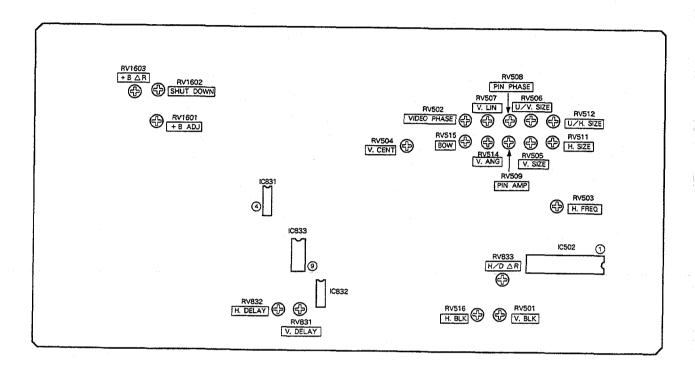
- on P board:NL801,T802 (FBT),C814.
- 1. Receive an entire white signal.
- 2. CONTRAST......Maximum
  - BRIGHTNESS...... Maximum
- 3. Connect a digital multimeter to the TP85 (CN503 pin-6).
- 4. Confirm the voltage is  $14.1 \pm 3.0$ V DC.
- 5. Receive a dot signal.
- Connect an ammeter between D board CN503 pin-® and P board CN801 pin-®.
- 7. Adjust BRIGHTNESS and CONTRAST so that the current is IABL =  $160 \pm 30 \mu A$ .
- Apply an external DC voltage gradually to TP85. When the voltage becomes 18.5V ± 0.1V DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
- When external DC voltage at TP85 becomes 17.5V ± 0.1V DC, confirm the HOLD-DOWN circuit doesn't operate.
- 10. Receive an entire white signal.
- 11. Adjust with BRIGHTNESS and CONTRAST controls so that the current is IABL =  $520 \pm 30 \,\mu\text{A}$ .
- 12. Apply DC voltage of 17.8V ± 0.1V to TP85. Confirm the HOLD-DOWN circuit operates immediately and raster disappears.
- 13. With the same set-up as steps 10 and 11, supply 16.8V ± 0.1V DC to TP85. Confirm that the HOLD-DOWN circuit doesn't operate.
- When above specifications are not satisfied, readjust RV833.
   After adjusting, fasten RV833 in place with epoxy.



# SECTION 5 CIRCUIT ADJUSTMENTS

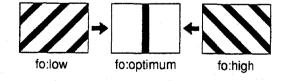
## 5-1. D BOARD ADJUSTMENTS

-D BOARD (COMPONENT SIDE)-



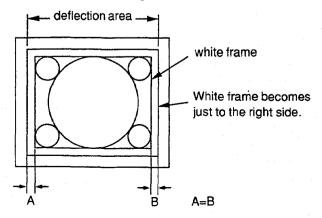
## HORIZONTAL OSCILLATION FREQUENCY ADJUSTMENT (RV503)

- 1. Receive a monoscope signal.
- Connect pin-① of IC502 to ground with 100μF/16V electrolytic capacitor.
- 3. Adjust RV503 (H.FREQ) so that the screen streaming to stops.



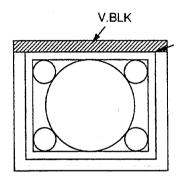
## SCREENPHASE ADJUSTMENTS (RV502, RV512, RV516)

- 1. Receive a monoscope signal.
- 2. Set U/S (Under Scan) switch to Under mode.
- 3. CONTRAST ..... Minimum
  - BRIGHTNESS ...... Maximum.
- 4. Adjust RV512 (U/H. SIZE) so that the white frame of monoscope signal becomes visible.
- 5. Adjust RV516 (H.BLK) for minimum BLKG width so that all the deflection area becomes visible.
- 6. Adjust RV502 (VIDEO PHASE) so that the monoscope's white frames should have equal width.



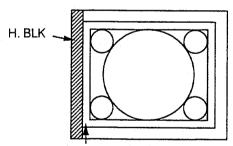
## H.V BLK ADJUSTMENTS (RV501,RV516)

- 1. Receive a monoscope signal.
- 2. Set U/S (Under Scan) switch to Under mode.
- 3. CONTRAST ..... Minimum
  - BRIGHTNESS ...... Maximum.
- 4. V. BLK Adjustment (RV501)
- Adjust RV501(V. BLK) so that the upper side white frame of monoscope signal is not blanked.



Make not to blank the upper side white frame of monoscope signal.

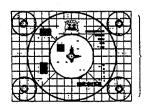
- 5. H. BLK Adjustment (RV516)
- Adjust with RV516 (H. BLK) so that the left end white vertical line of the white frame of monoscope signal is not blanked as following figure.



Make not to blank the left end white vertical line of the white frame of monoscope signal.

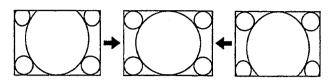
## VERTICAL DEFLECTION PART ADJUSTMENTS (RV504, RV505, RV506, RV507)

- 1. Receive a monoscope signal.
- CONTRAST ......70%
  - BRIGHTNESS ...... 50%
- 3. Adjust RV505 (V. SIZE) so that the vertical size of monoscope signal becomes 12 frames.

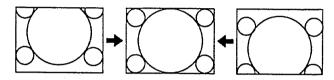


12 frames

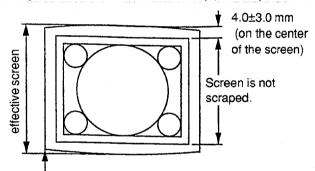
4. Adjust RV507 (V.LIN) the vertical linearity.



5. Adjust RV504 (V. CENT) the vertical position.



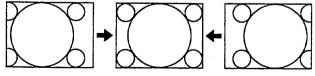
- 6. V. SIZE ADJUSTMENT (RV505)
- (1) Adjust RV505 (V. SIZE) so that the vertical size of monoscope signal becomes 11.75 +0.2 frames.
- 7. V.SIZE IN UNDERSCAN MODE ADJUSTMENT (RV506)
- (1) Set U/S (Under Scan) switch to Under mode.
- (2) Adjust the Under V.SIZE with RV506 (U/V. SIZE) as follows.



Screen is not wane on the four corners.

## HORIZONTAL DEFLECTION PART ADJUSTMENTS (RV508, RV509, RV511, RV514, RV515, RV801/P board)

- 1. Receive a monoscope signal.
- 2. CONTRAST ......70%
  - BRIGHTNESS ..... 50%
- 3. H. CENT Adjustment (RV801 on P board)
- (1) Adjust RV801 on P board (H. CENT) the horizontal position.



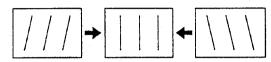
- 4. H. SIZE Adjustment (RV511)
- (1) Adjust RV511 (H. S1ZE) the horizontal size of 16 frames of monoscope signal.

16 frames

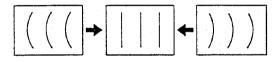
5. PIN AMP. PIN PHASE, V. ANG, BOW ADJUSTMENTS (RV508 RV509, RV514, RV515)

Adjust RV514 (V. ANG) and RV515 (BOW) to correct vertical angular distortion and bow distortion. Adjust RV509 (PIN AMP) and RV508 (PIN PHASE) so that vertical lines become straight.

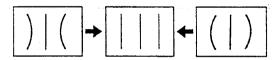
V. ANG (RV514)



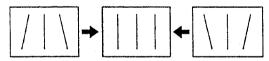
BOW (RV515)



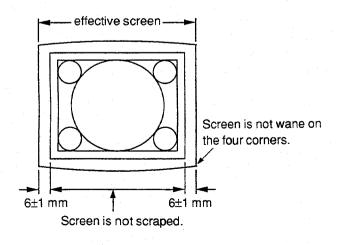
• PIN AMP (RV509)



• PIN PHASE (RV508)

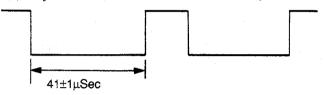


- 6. H. SIZE ADJUSTMENT (RV511)
- (1) Adjust RV511 (H. SIZE) so that the horizontal size becomes  $16 \pm 0.2$  frames.
- 7. UNDERSCAN MODE H.SIZE ADJUSTMENT (RV512)
- (1) Set U/S (Under Scan) switch to Under mode.
- (2) Adjust RV512 (U/H. SIZE) the Under H. SIZE as shown in the figure.

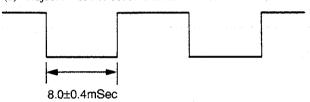


## H V DELAY ADJUSTMENT (RV831, RV832)

- 1. Receive a monoscope signal.
- 2. CONTRAST ......70%
  - BRIGHTNESS ......50%
- 3. Set H V DELAY switch to DELAY mode.
- 4. H. DELAY Adjustment (RV832)
- (l) Connect an oscilloscope to pin-4 of IC831.
- (2) Adjust RV832 (H. DELAY) to becomes  $41 \pm 1$  µsec.



- 5. V. DELAY Adjustment (RV831)
- (1) Connect an oscilloscope to pin-9 of IC833.
- (2) Adjust RV831 to become  $8.0 \pm 0.4$ msec as follows.



## SHUT-DOWN VOLTAGE ADJUSTMENT (RV1602)

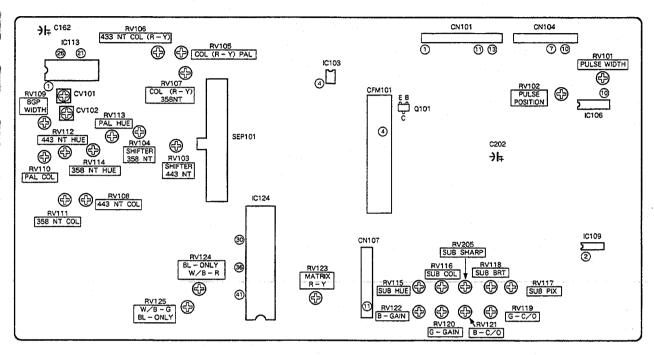
- 1. Fully rotate RV1602 in the direction that does not shut-down.
- Supply a 9.4V <sup>+0.1</sup><sub>-0</sub>V voltage to the C1602 side of L1602 on the D board
- 3. Turn AC power switch ON.
- 4. Rotate D board RV1602 (SHT DOWN) slowly to the point that shuts-down the unit.

## B+ VOLTAGE DURING DC OPERATE MODE, ADJUSTMENT (RV1601)

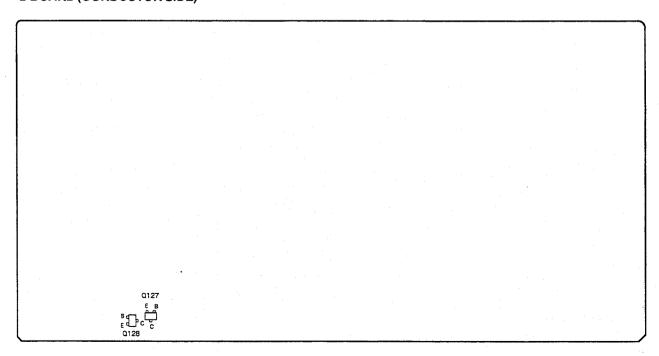
- 1. Supply DC12V±0.2V to DC 12V IN connector.
- 2. Receive a monoscope signal.
- 3. CONTRAST ..... 80%
  - BRIGHTNESS ......50%
- 4. Connect a digital voltmeter to C1605 + positive side on D board.
- 5. Adjust RV1601 on the D board for 40.0±0.1V DC.

## **B BOARD ADJUSTMENT**

## -B BOARD (COMPONENT SIDE)-

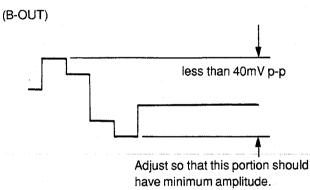


## -B BOARD (CONDUCTOR SIDE)-

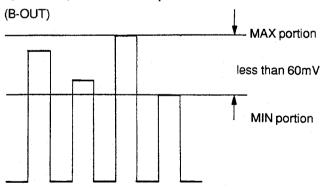


## PRIMARY COLOR MATRIX ADJUSTMENT (RV115, RV116, RV123)

- 1. Supply component color bar signal (75% drroma color bar) to the equipment so that Y signal is supplied to EXT SYNC and R-Y signal to R-Y connectors Operate the equipment in external sync mode.
- 2. Connect oscilloscope to IC124 pin-39 (B-OUT).
- 3. Adjust RV115 (SUB HUE) to obtain the Blue output as shown in figure.

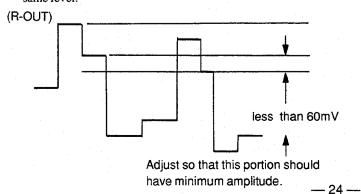


- 4. Supply component color bar signal (75% color bar) to the component input connector to feed R-Y and B-Y signals. Operate the equipment in internal SYNC mode.
- Connect oscilloscope to IC124 pin-3 (SUB-COL). Adjust RV116 (SUB-COL) so that waveform peaks should have the same level.



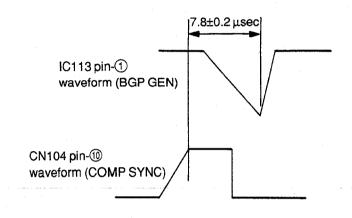
(Adjust so that the first and the 4th peaks should have the same level.)

- 6. Connect oscilloscope to IC124 pin-41 (R-OUT).
- 7. Adjust RV123 ((R-Y)-IN) so that waveform peaks should have the same level.



## **BURST GATE PULSE WIDTH ADJUSTMENT (RV109)**

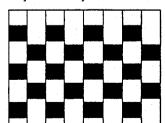
- Receive color bar signal.
- Connect dual trace oscilloscope to CN104 connector pin (COMP-SYNC) and IC113 (M51279) pin (BGP-WIDTH).
   Adjust RV109 (BGP-WIDTH) to obtain the relationship as shown in the figure.



## VXO ADJUSTMENT (CV101, CV102)

- 1. 3.58MHz VXO adjustment (CV101)
- (1) Receive NTSC color bar signal.
- (2) Connect +5V power line to IC113 pin-6 (ID-FILT-REF) via a 4700 $\Omega$  resistor.
- (3) Ground IC109 pin-2 by connecting it to ground.
- (4) Ground C162 negative side by connecting it to ground.
- (5) Connect frequency counter to IC113 pin-②. Adjust CV101 (358FO) for 3579545±20Hz.
  (This adjustment can be alternatively done by observing screen as below.)

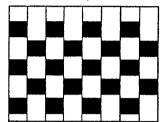
Adjust color synchronization by CV101 (358FO).



Adjust so that color stripes disappear and the hue change is stabilized extremely.

- 4.43MHz VXO adjustment (CV102)
- (1) Receive PAL colour bar signal.
- (2) Connect +12V power line to IC109 pin-2.
- (3) Connect frequency counter to IC113 pin-2. Adjust CV102 (443FO) for 4433619±20Hz.
  (This adjustment can be alternatively done by observing screen as

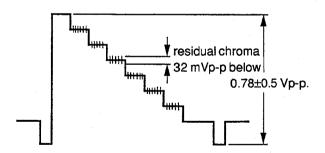
Adjust colour synchronization by CV102(443FO).



Adjust so that colour stripes disappear and the hue change is stabilized extremely.

## NTSC COMB FILTER ADJUSTMENT (RV1,T1/CFM101 BOARD)

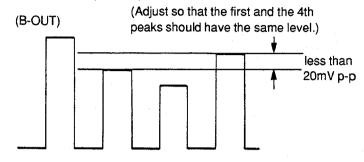
- 1. Receive NTSC 3.58 color bar signal.
- Connect an oscilloscope to C202 negative side.
- 3. Confirm the YOUT is 0.78±0.5 Vp p.
- Confirm the residual chroma is 32 mVp-p below. If it is above 35 mVp p, adjust with RV1 and T1 on CFM201 board while tracking.



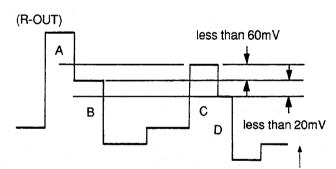
## NTSC COLOR DEMODULATION ADJUSTMENT (RV114,RV111,RV104,RV107)

- 1. NTSC 3.58MHz HUE adjustment (RV114)
- (1) Supply NTSC color bar signal including burst and R-Y component. (For example, Tektronix 1410SG output color bar signal with B-Y component removed.)
- (2) Connect an oscilloscope to Q128 emitter (B-Y OUT).
- (3) Adjust RV114 (358NT HUE) so that all the waveform peaks should have equal amplitude (look flat) except burst. (Level difference should be less than 10mV p-p.)

- 2. NTSC 3.58MHz COLOR adjustment (RV111)
- (1) Receive NTSC 3.58 color bar signal.
- (2) Connect an oscilloscope to IC124 pin-3 (B-OUT).
- (3) Adjust RV111(358NT-COL) so that waveform peaks should have the same level (most flat).



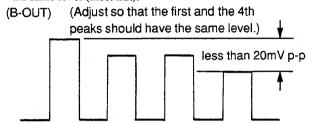
- 3. NTSC 3.58MHz COLOR (R-Y) adjustment (RV104, RV107)
- (1) Receive the color bar signal.
- (2) Connect an oscilloscope to the Q127 emitter (R-Y OUT), and adjust RV104 (358NT-SHIFT) so that the output of the burst section (B-Y axis signal output) becomes 0.
- (3) Connect an oscilloscope to IC124 pin-4 (R-OUT). Adjust RV107 (358NT-COL (R-Y)) so that the level difference should be minimum.



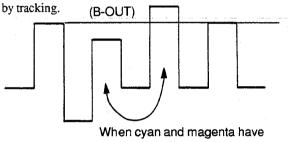
(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

## NTSC 4.43MHZ COLOR DEMODULATION ADJUSTMENT (RV108, RV112, RV103, RV106)

- 1. NTSC 4.43MHz COLOR adjustment (RV108,RV112)
- (1) Receive NTSC 4.43 color bar signal (75% color bar).
- (2) Connect an oscilloscope to IC124 pin-30 (B-OUT).
- Adjust RV108 (443NT-COL) so that waveform peaks should have the same level (most flat).

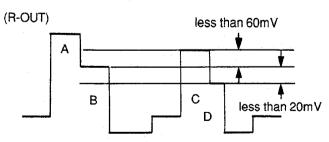


(4) When cyan and magenta have level difference, adjust RV112 (443NT-HUE) and RV108 (443NT-COL) alternatively to remove,



level difference, adjust RV112 and RV108 alternatively to remove.

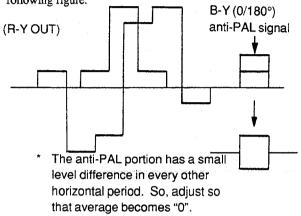
- 2. NTSC 4.43MHz COLOR (R-Y) adjustment (RV103, RV106)
- (1) Receive the NTSC 4.43 color bar signal (75%, chroma color bar).
- (2) Connect an oscilloscope to the Q127 emitter (R-Y OUT), and adjust RV103(443NT-SHIFT) so that the output of the burst section (B-Y axis signal output) becomes 0.
- (3) Connect an oscilloscope to IC124 pin-41 (R-OUT). Adjust RV106 (443NT-QOL (R-Y)) so that the level difference should beminimum.



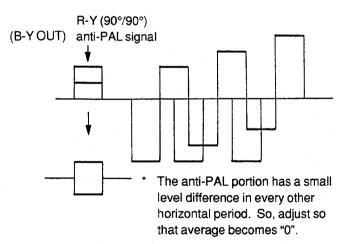
(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

## PAL COLOR DEMODULATION ADJUSTMENT (RV113,RV2/SEP101, RV110,RV105,RV205)

- 1. PAL PHASE Adjustment (RV113,RV2/SEP101)
- (1) Receive the special PAL color-bar.
- (2) Connect an oscilloscope to emitter of Q127 (R-Y OUT).
- (3) Adjust RV113 (PAL-PHASE) so that B-Y (0/180°) anti-PAL portion (in the R-Y demodulated output) becomes "0" (flat) as following figure.



- (4) Connect an oscilloscope to emitter of Q128 (B-Y OUT).
- (5) Adjust RV2 inside SEP101 so that R-Y (90°/90°) anti-PAL portion (in B-Y demodulated output) becomes "0" (flat) as following figure.

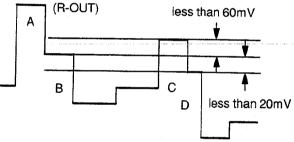


For the adjustments of (3) and (5), it is also possible to set the color level to MAX with the chroma adjusting knob of the unit and erase the color of the anti-pal signal section.

- 2. PAL COLOR ADJUSTMENT (RV110)
- (1) Receive PAL color bar signal (75% color bar).
- (2) Connect an oscilloscope to IC124 pin-3 (B-OUT).
- (3) Adjust RV110 (PAL-COL) so that waveform peaks should have the same level (most flat).

(B-OUT) (Adjust so that the first and the 4th peaks should have the same level.)

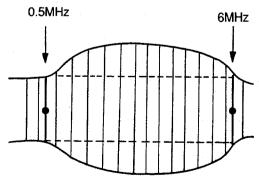
- 3. PAL-COLOR-(R-Y) ADJUSTMENT (RV105)
- (1) Connect an oscilloscope to IC124 pin-(1) (R-OUT).
- (2) Adjust RV105 (PAL-COL-(R-Y)) so that waveform peaks should have the same level (most flat).



(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

## SUB-SHARP ADJUSTMENT (RV205)

- (1) Receive a sweep signal (or multi-burst).
- Bandwidth should be more than 10MHz (flat).
  - Composite sync should be included.
  - Turn burst off.
- (2) Connect an oscilloscope to IC124 pin-3 (G-OUT).
- (3) Adjust RV205 (SUB-SHARP) as shown.



Example of sweep signal output waveform

[specification] 6MHz/0.5MHz=0±0.5dB

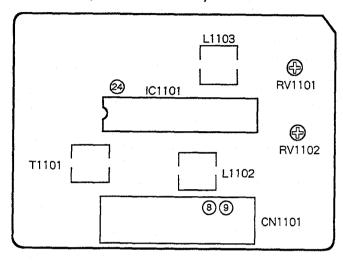
## CHROMA H PULSE POSITION ADJUSTMENT (RV101,RV102)

- Receive the SECAM color bar signal.
   (The left edge of the screen should not be colored.)
- (2) Set to the under-scan mode.
- (3) Adjust RV101 (PLUSE-WIDTH) until the point immediately before the color on the left edge of the screen disappears.
- (4) Release the under-scan mode.
- (5) Set the HV DELAY mode.
- (6) Adjust RV102 (PULSE-POSI) untill the point immediately before the rising color of the image after back porch diappears.

Note: If image phase adjustment or HV DELAY amount adjustment during HV DELAY is performed after completing the adjustment in this section, re-adjustments will be required. Therefore, performed this adjustment after the two mentioned have been performed.

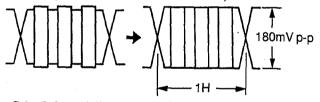
## S BOARD ADJUSTMENTS

## -S BOARD (COMPONENT SIDE)-

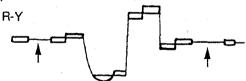


## SECAM(T1101,L1102,L1103)

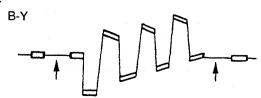
- 1. Receive SECAM color-bar.
- 2. Bell Filter Adjustment (T1101)
- (1) Connect an oscilloscope to IC1101 pin-2.
- (2) Adjust T1101 (Bell Filter) so that the chroma waveform becomes smooth. (Uneven level should be minimum.)



- 3. Color Balance Adjustment (L1102,L1103)
- (1) Connect an oscilloscope to pin-9 (R-Y) of CN1101 connector.
- Adjust L1102 (R-Y) so that the non-colored portion level becomes flat.



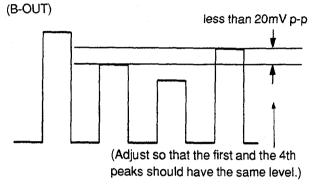
- (3) Connect an oscilloscope to pin-® (B-Y) of CN1101 connector.
- (4) Adjust L1103 (B-Y) so that the non-colored portion level becomes flat.



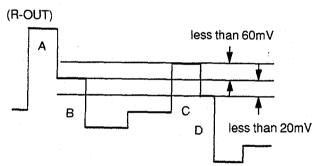
(5) When adjusting the color level of the unit to MAX or MIN using the chroma adjusting knob, check that the white balance of the colorless section does not change.

## DEMODULATION LEVEL ADJUSTMENT (RV1101, RV1102)

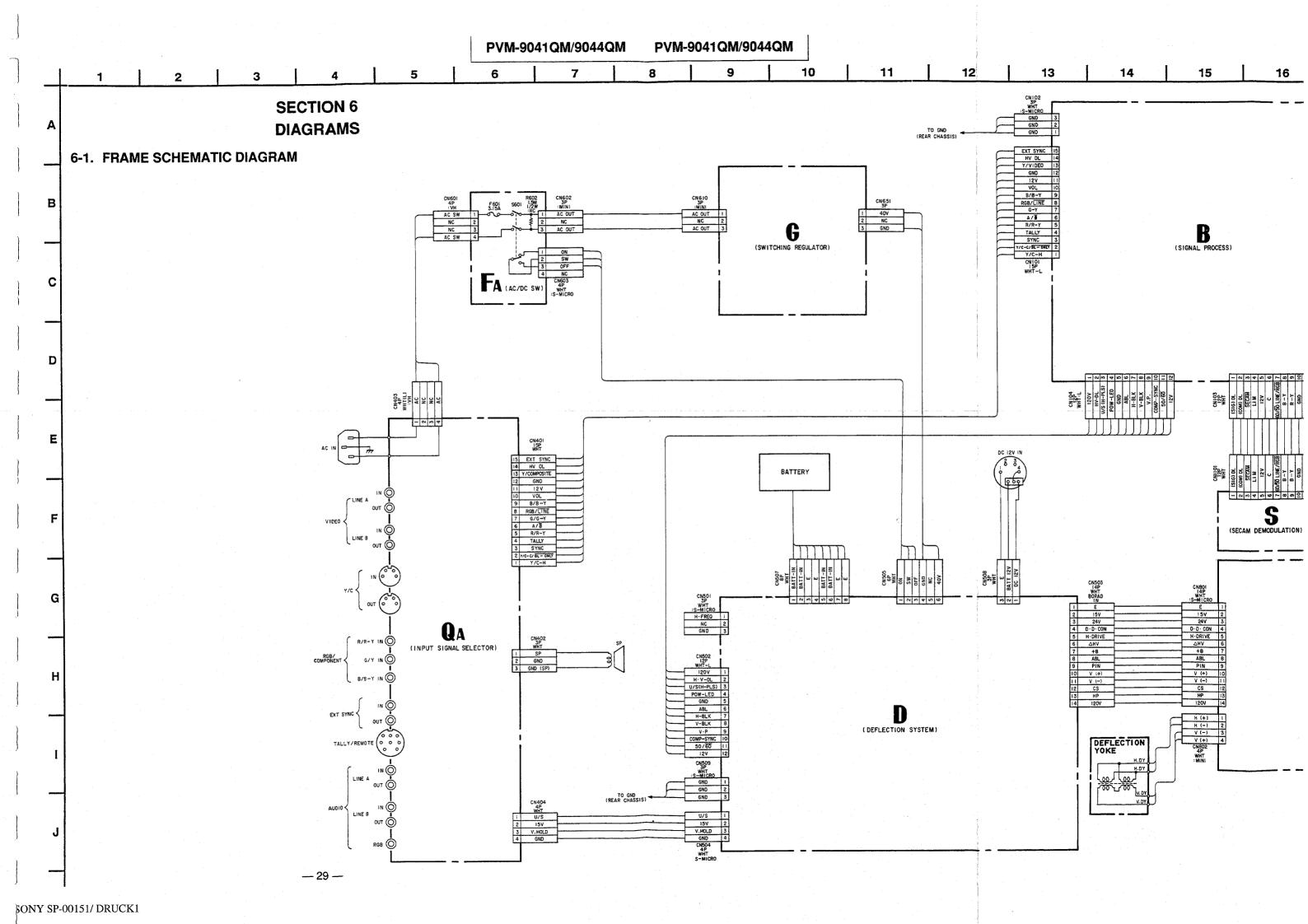
- 1. Receive SECAM color-bar.
- Connect an oscilloscope to IC124 pin-30 (B-OUT).
- 3. Adjust S board RV1101 (SEC-COL) so that waveform peaks should have the same level (most flat).

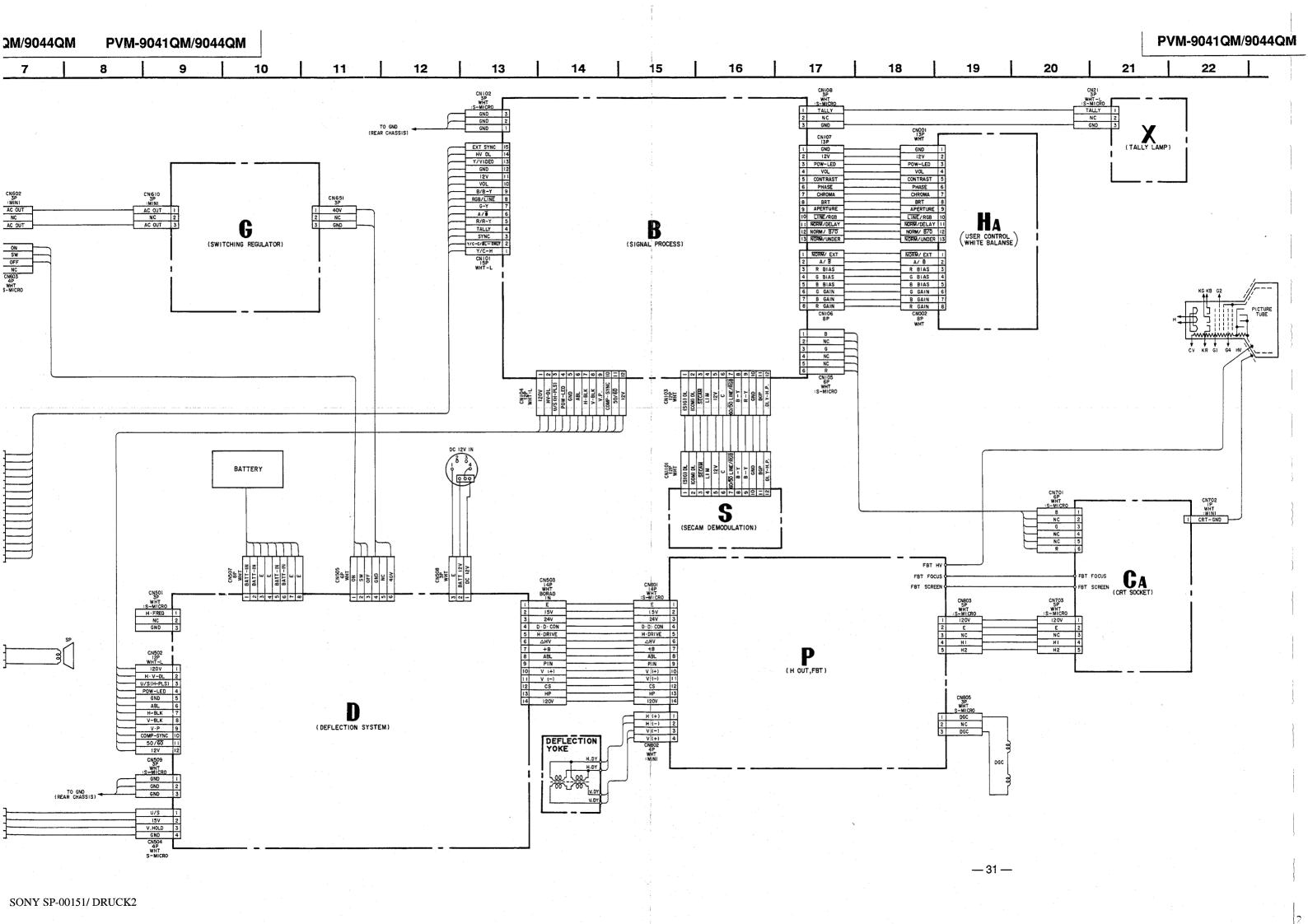


- 4. Connect an oscilloscope to IC124 pin-(4) (R-OUT).
- 5. Adjust S board RV1102 (SEC-COL (R-Y)) so that the level difference should be minimum.

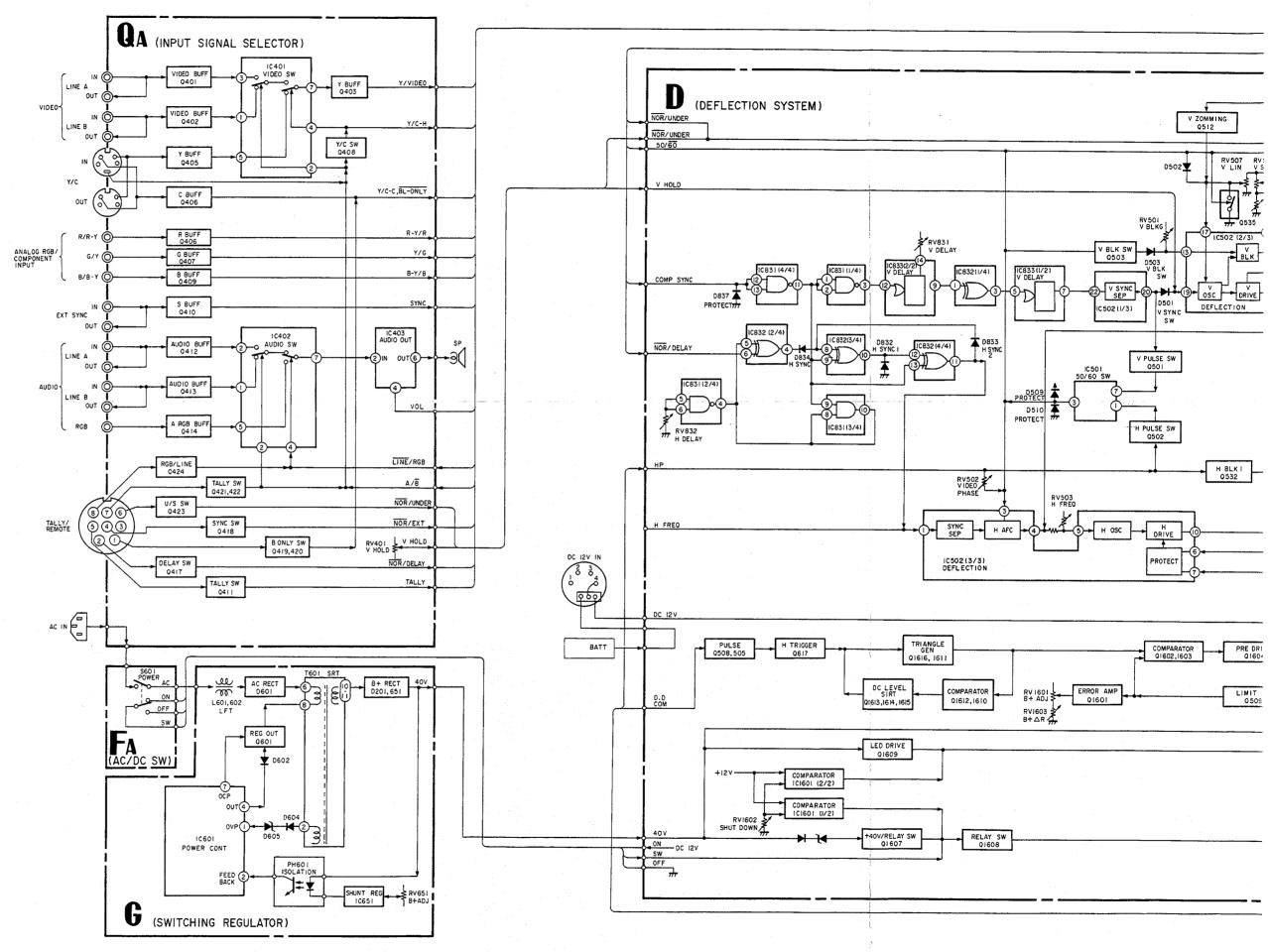


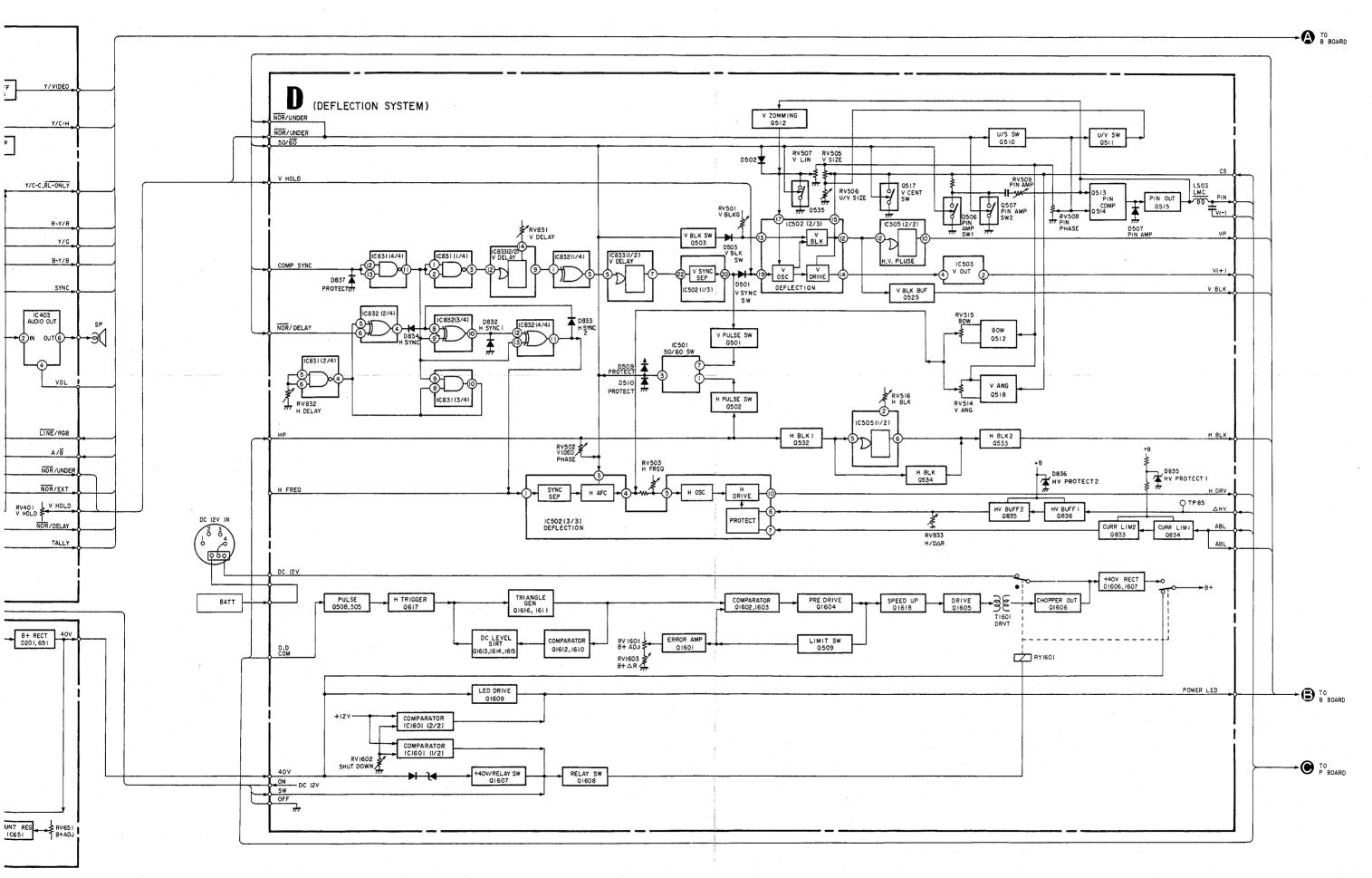
(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

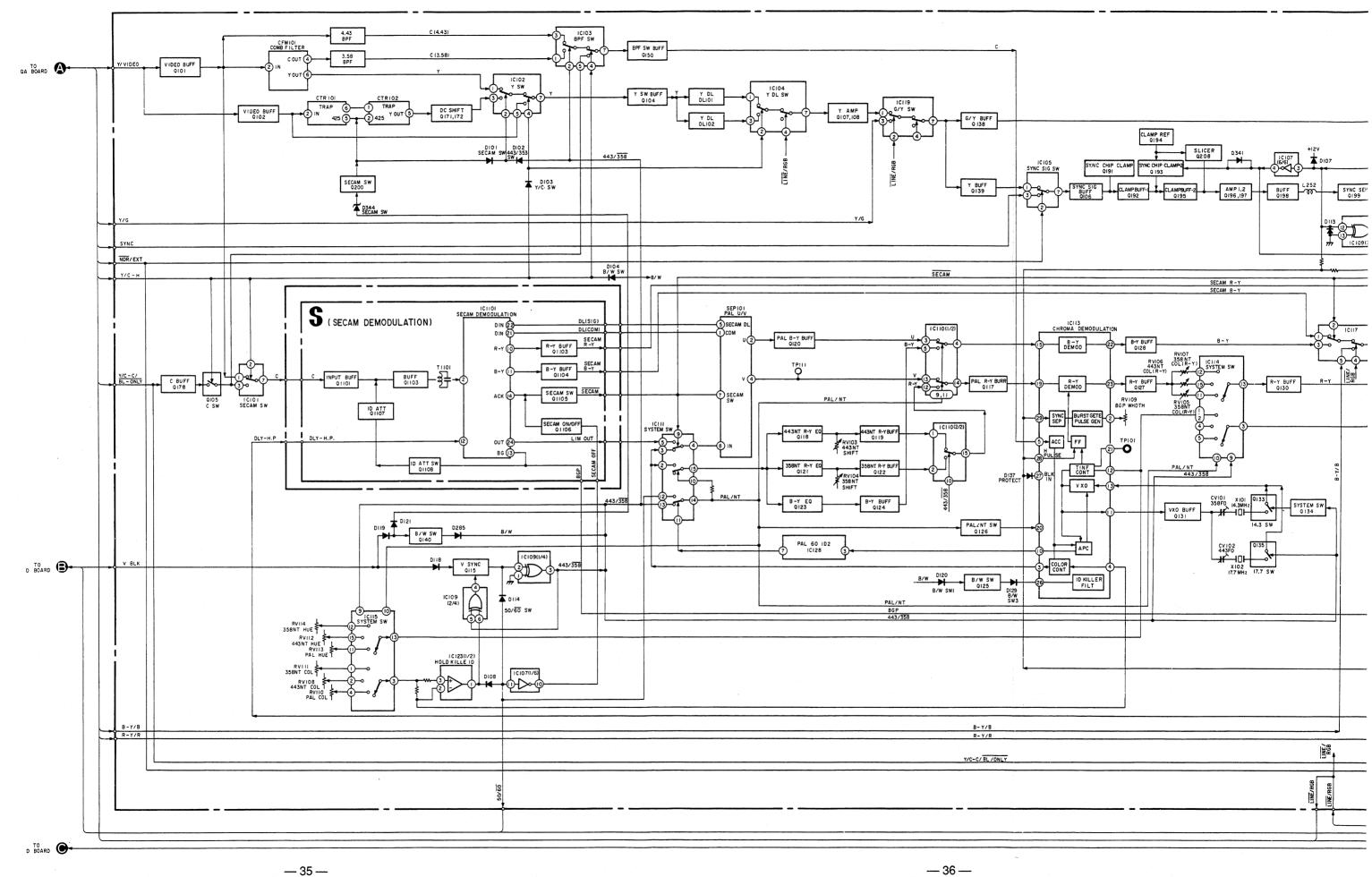




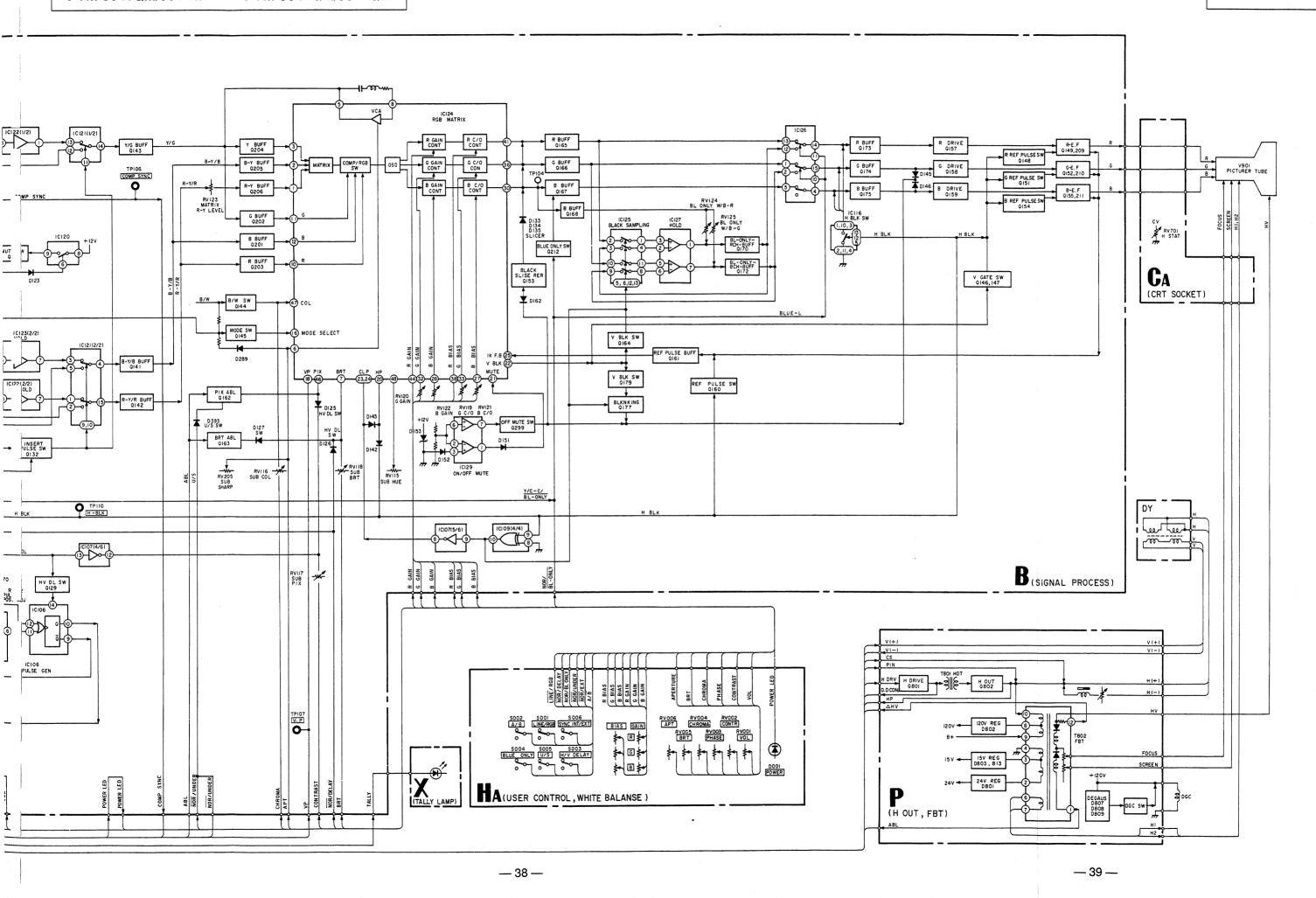
## 6-2. BLOCK DIAGRAM (1)



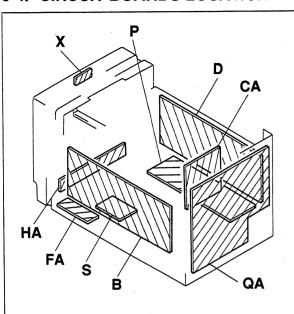




QM



## 6-4. CIRCUIT BOARDS LOCATION



## 6-5. PRINTED WIRING BOARDS AND **SCHEMATIC DIAGRAMS**

## Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 1/4W

All resistors are in ohms.

- : nonflammable resistor.
- fw-\tau: fusible resistor.
- : panel designation.
- · All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by lacktriangle in this basic schematic diagram have been carefully factoryselected for each set in order to satisfy regulations regarding X-ray radiation.
- Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by 
  and repeat the adjustment until the specified value is achieved.
- (Refer to RV651, RV1603, and RV833 adjust on page
- · When replacing the part in below table be sure to parform the related adjustment.

Part replaced ( )	Adjustment (☑)
IC601, IC651, PH601, C654, R653,	RV651
R655,R656,R657,RV651	(B+ MAX)
Q1601, Q1602, Q1603, D1601, D1602, D1603, D1604, D1605, C1601, C1602, R1601, R1602, R1603, R1604, R1605, R1606, R1607, R1608, R1628, R1629, R1630, RV1601, RV1603	RV1603 (B+MAX IN DC POWER INPUT MODE )
IC502, Q833, Q834, Q835, Q836, D835, D836, C519, C814, C843, C844, C845, C846, C847, C848, RV833, R523, R850, R851,R852, R853, R854, R855, R856, R857, R858, R859, R861, R862, R863, NL801	RV833 (HOLD-DOWN)

- · All voltages are in V.
- · Voltage are dc with respect to ground unless otherwise
- · Readings are taken with a color-bar signal input.
- · Readings are taken with a PAL color-bar signal input.
- : adjustment for repair.
- · Voltage variations may be noted due to normal production tolerance.
- \_\_\_\_ : B+ bus.
- ■ : B- bus.
- · signal path.
- · No mark: with PAL coior-bar signal received or common voltage.
- ) : with SECAM color-bar signal received.
- < > : with NTSC 3.58 color-bar signal received.
- (( )) : with NTSC 4.43 color-bar signal received.
- [ ] : with S (Y/C) color-bar signal received.
- { } : with analog RGB color-bar signal received.
- << >> : with component color-bar signal received.

METAL FILM

• \* : measurement impossibility.

: ALB

: ALT

: ALR

## Reference information

RESISTOR : RN

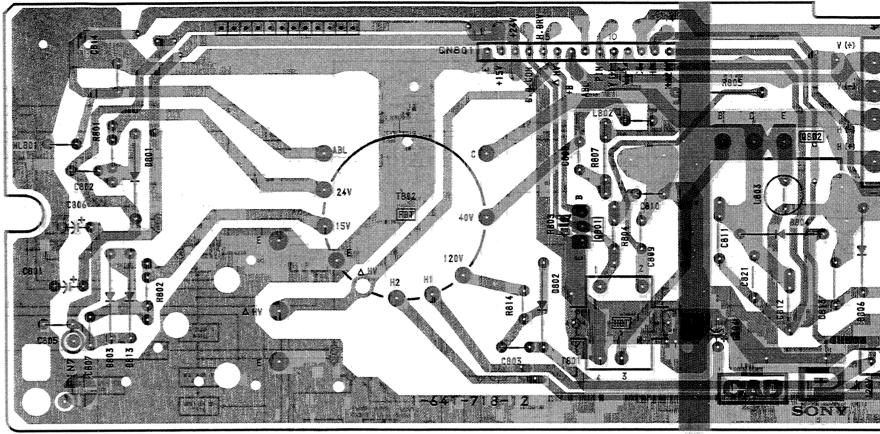
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLEWIREWOUND
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE

HIGH TEMPERATURE

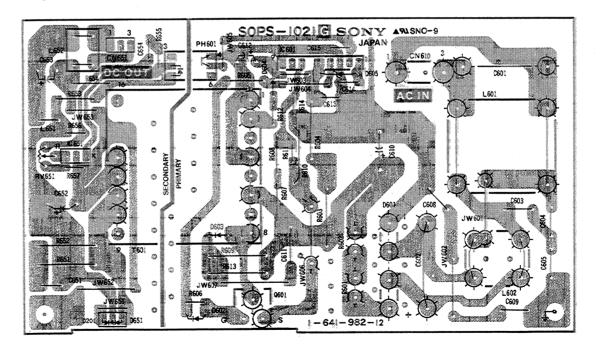
HIGH RIPPLE

**ISWITCHING REGULATOR** 

IH OUT, FBT - P Board -



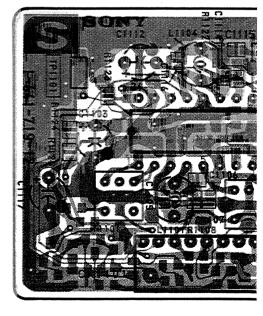
- G Board -



- X Board -



- S Board - Component side -

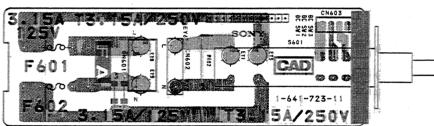


- : Pattern from the side which enables see
- : Pattern of the rear side.

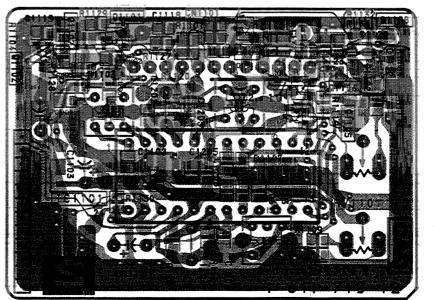
**— 40 —** 

D401 D-2 D402 D-3 D403 F-3

IC401 B-4 IC402 D-4 IC403 H-4 TRANSISTOR C-8 C-6 C-4 B-10 E-7 B-10 E-5 E-3 D-2 C-7 C-4 E-3 D-1 C-1 B-2 B-2 B-2 B-2 C-1 B-3 Q401 Q402 Q403 Q404 Q405 Q406 Q407 Q411 Q411 Q411 Q416 Q417 Q418 Q418 Q419 Q420 Q421 Q422 Q423 Q424 VARIABLE RESISTOR RV401 F-7



— S Board — — Conductor side —



- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

QA Board

DIODE

- FA Board -





Pattern from the side which enables seeing.

- S Board - Component side -

: Pattern of the rear side.

:( LATOR]

ESONY ARISNO-9

ONY SP-00151/ DRUCK9

[INPUT SIGNAL SELECTOR]

PVM-9041G

— QA Board —

**— 43 —** 

[AC/ DC]

QA Board

QA Board

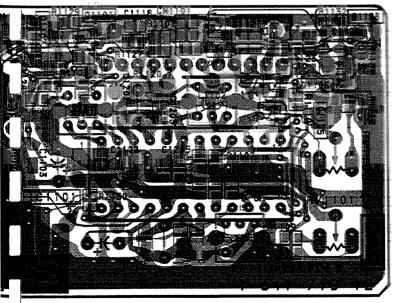
[INPUT SIGNAL SELECTOR]

— QA Board —

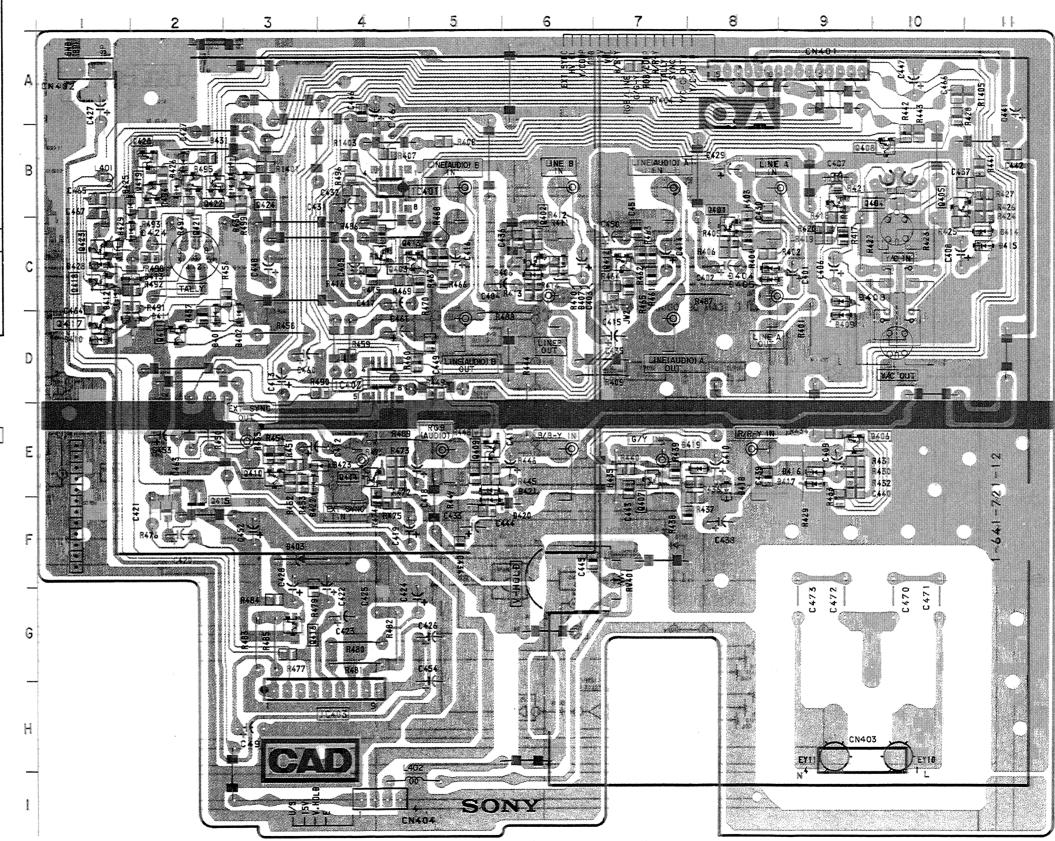
DIODE

D401 D-2
D402 D-3
D403 F-3

I ard — — Conductor side —

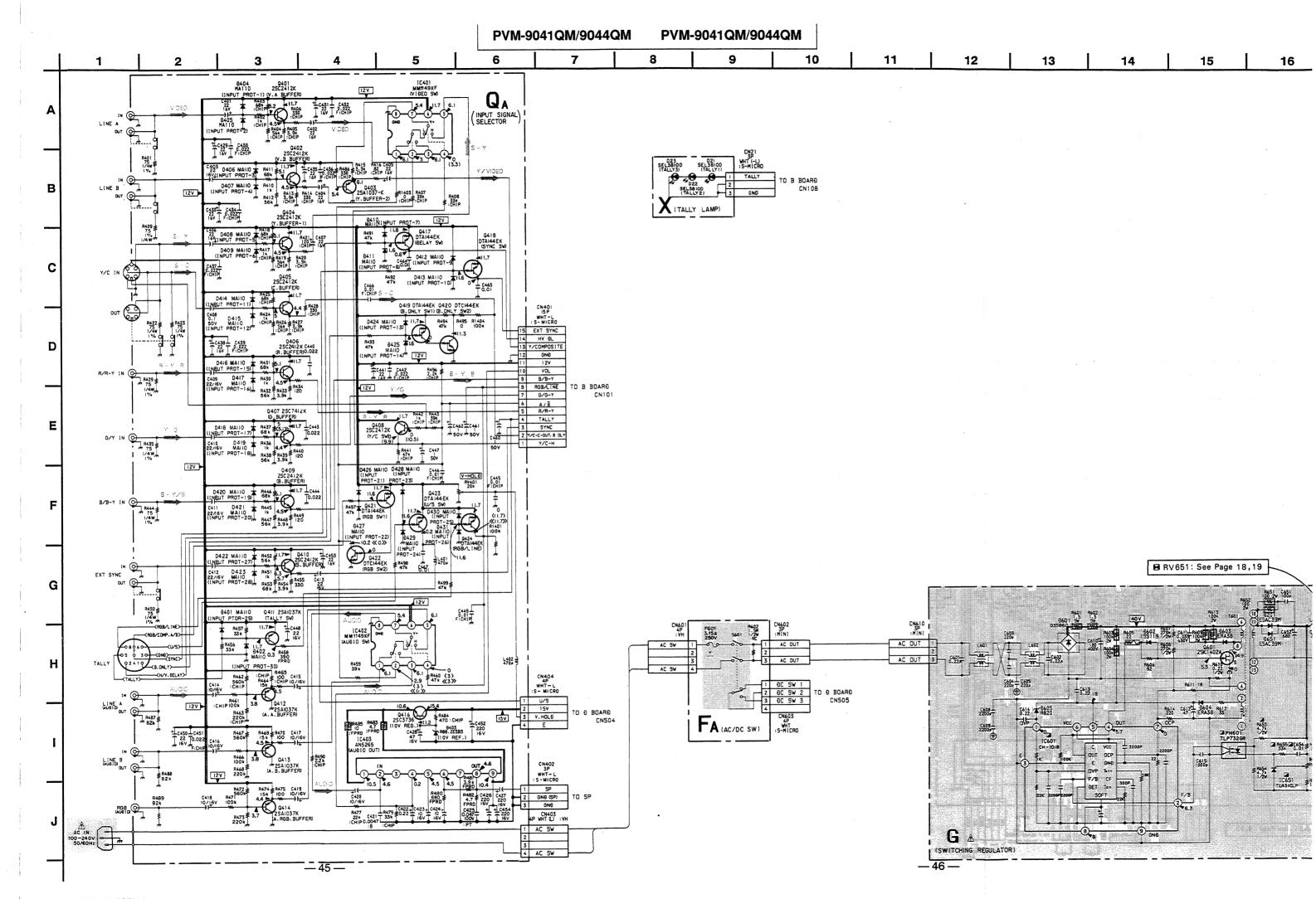


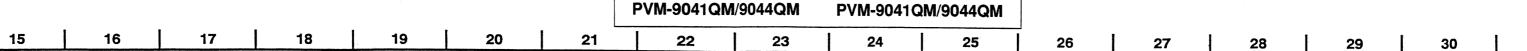
- Pattern from the side which enables seeing.
- ###### : Pattern of the rear side.



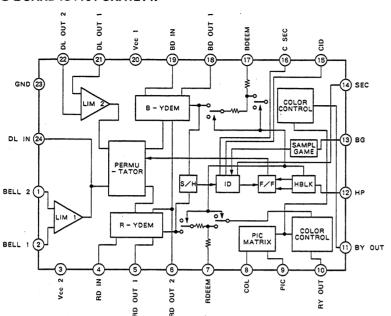
PVM-9041QM/9044QM

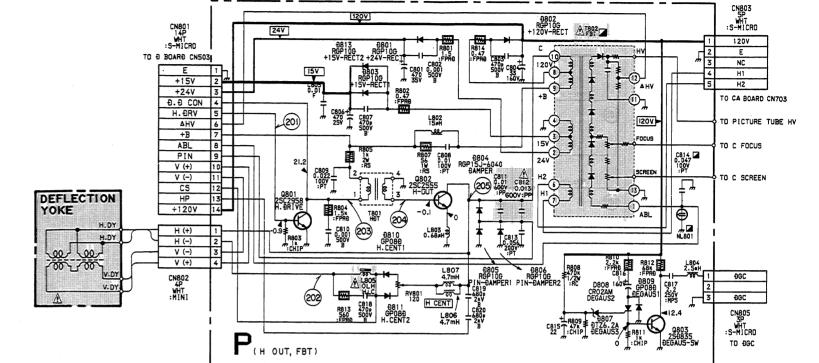
**— 43 —** 



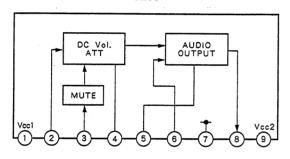


## S BOARD IC1101 CXA1214P

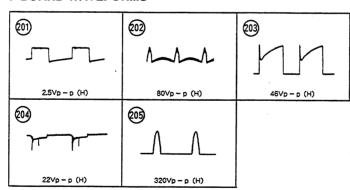




## QA BOARD IC403 AN5265

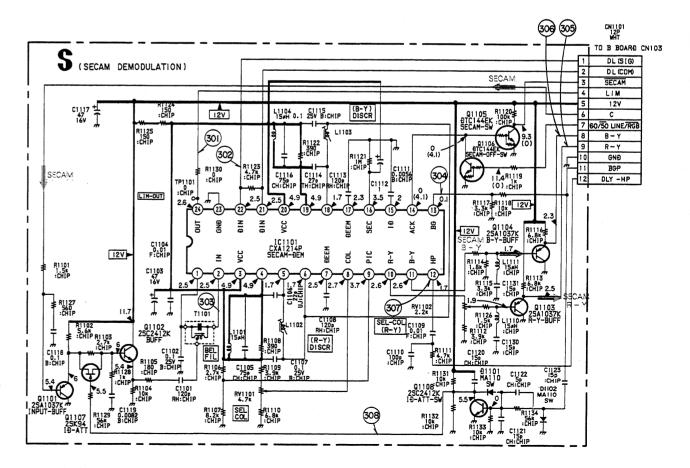


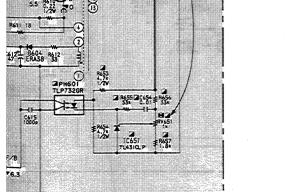
## P BOARD WAVEFORMS



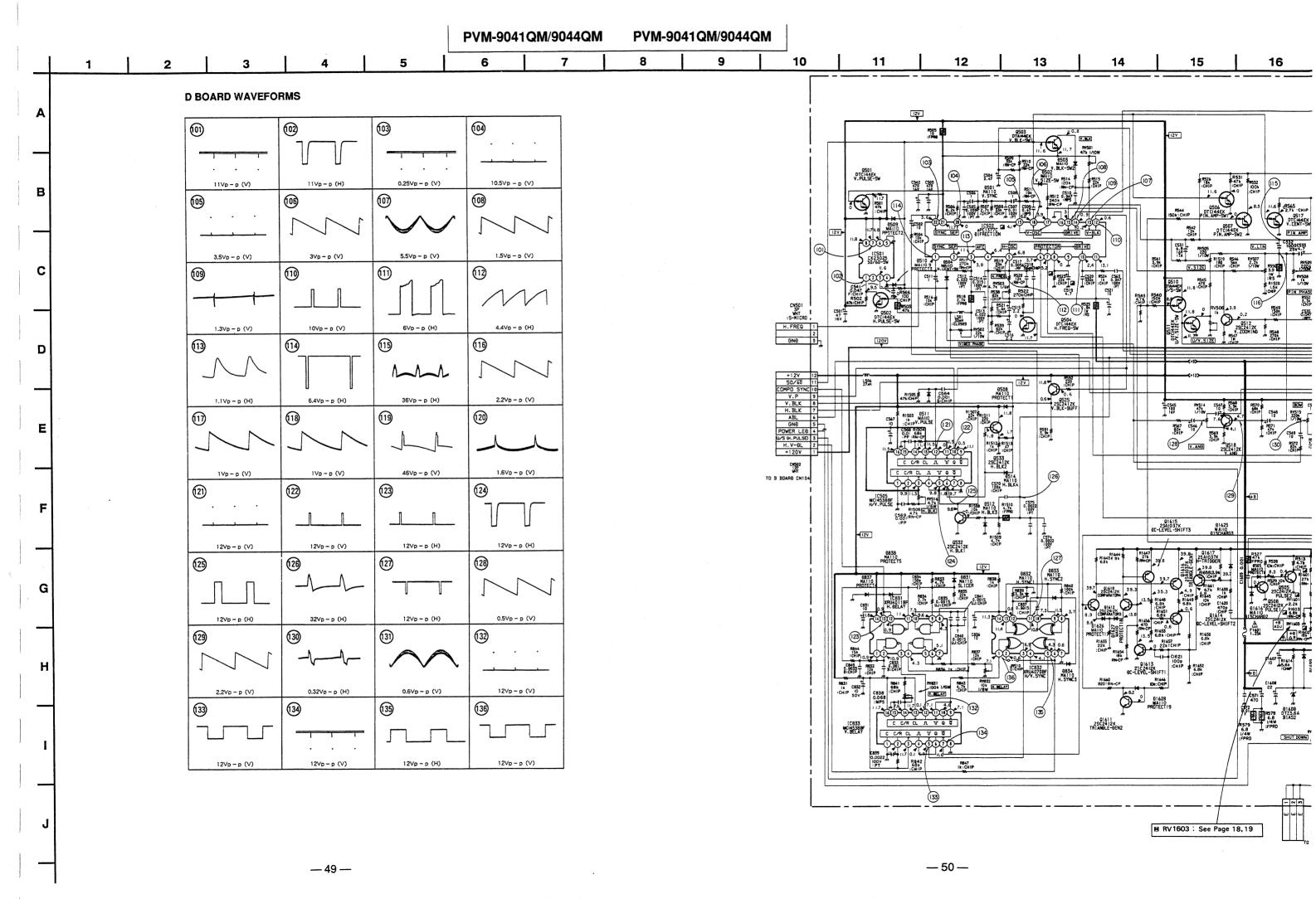
## S BOARD WAVEFORMS

<b>(10)</b>	<b>1992</b>	(803)	394
	HERE HEREN		
SECAM 0.8Vp-p (H)	SECAM 0.7Vp - p (H)	SECAM 0.1Vp - p (H)	SECAM 3Vp-p (H)
305)	309	<b>199</b>	<b>308</b>
Thath	᠂ᢆᡌᡀᠰ᠊ᠰᡌᡀᡕ	_//	
SECAM 0.6Vp - p (H)	SECAM 0.7Vp - p (H)	SECAM 3.4Vp - p (H)	SECAM 6Vp~p (H)



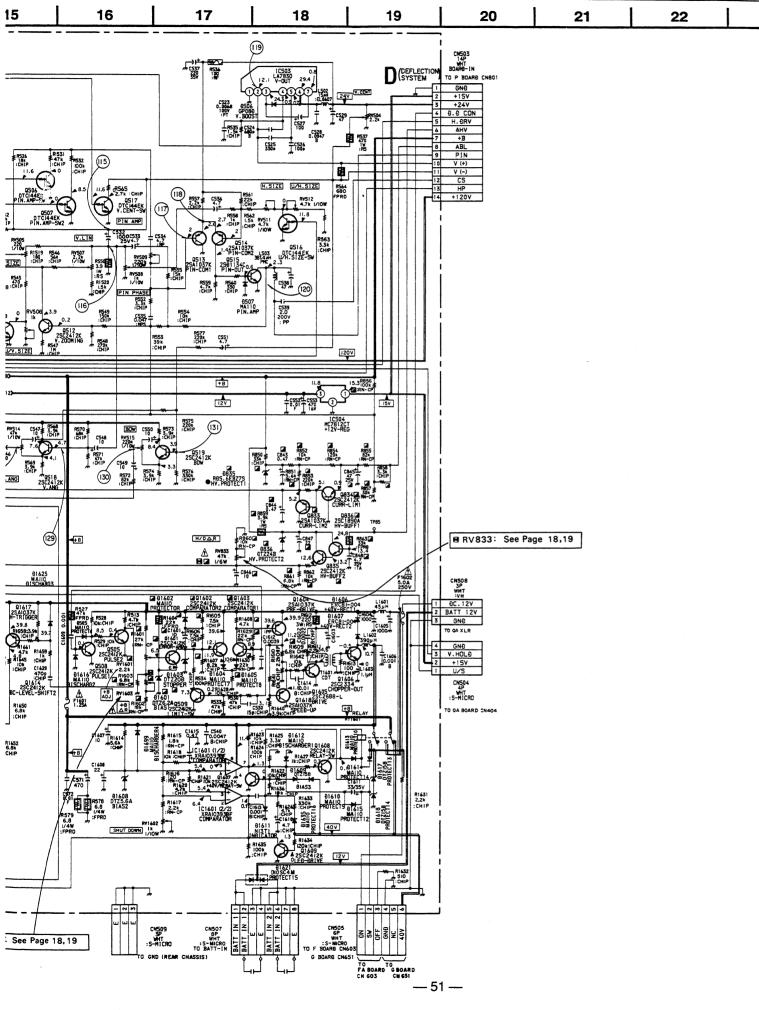


51: See Page 18,19

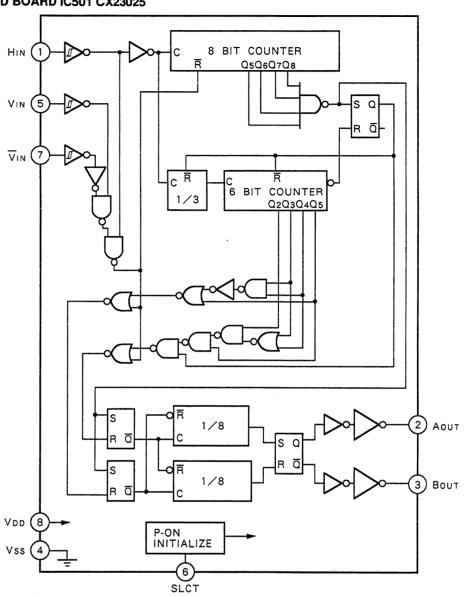




23



## D BOARD IC501 CX23025



27

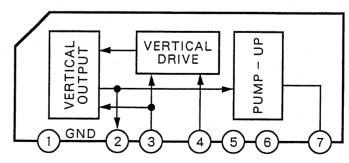
28

29

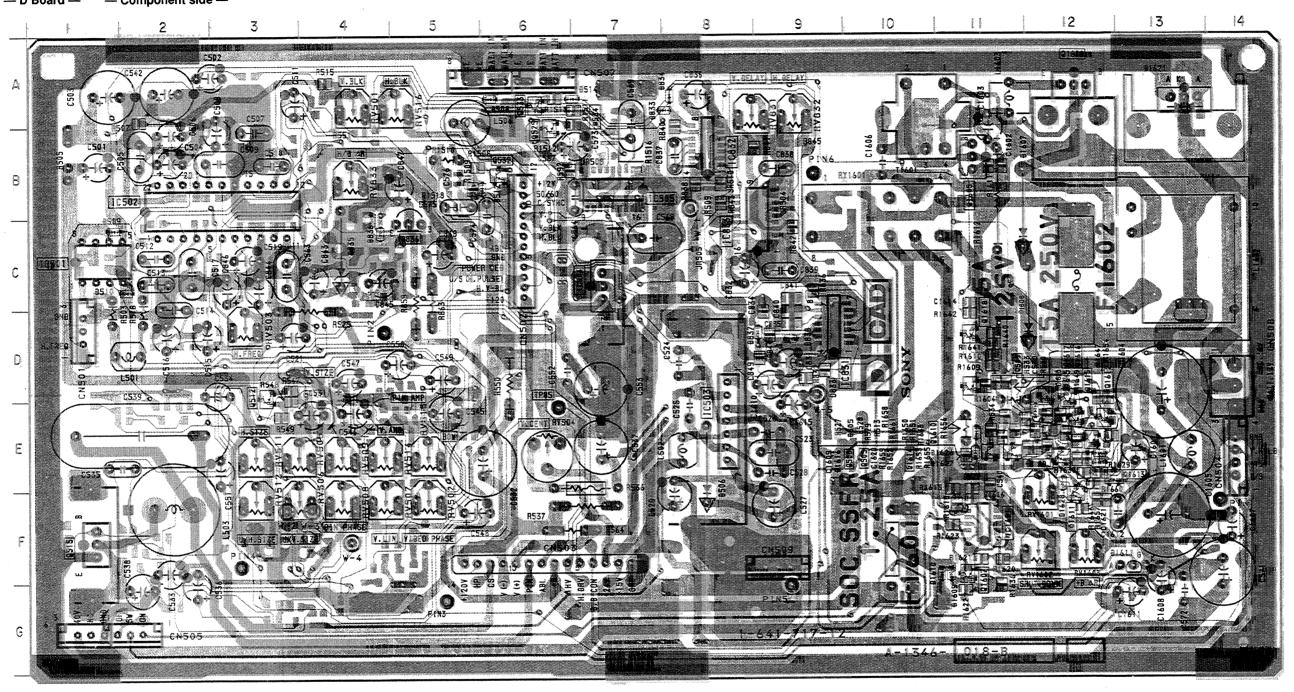
26

30

## **D BOARD IC503 LA7830**





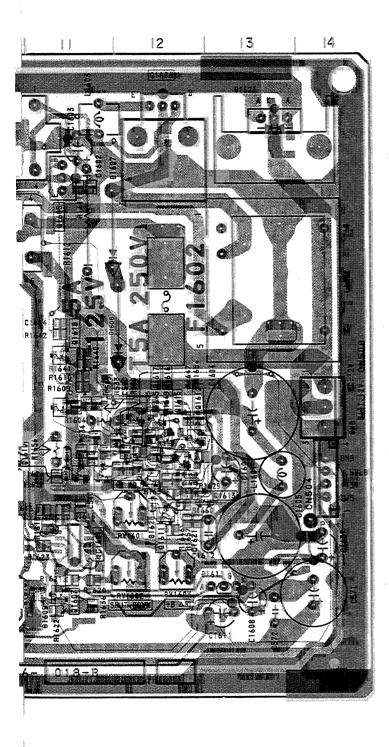


Pattern from the side which enables seeing.

• ###### : Pattern of the rear side.

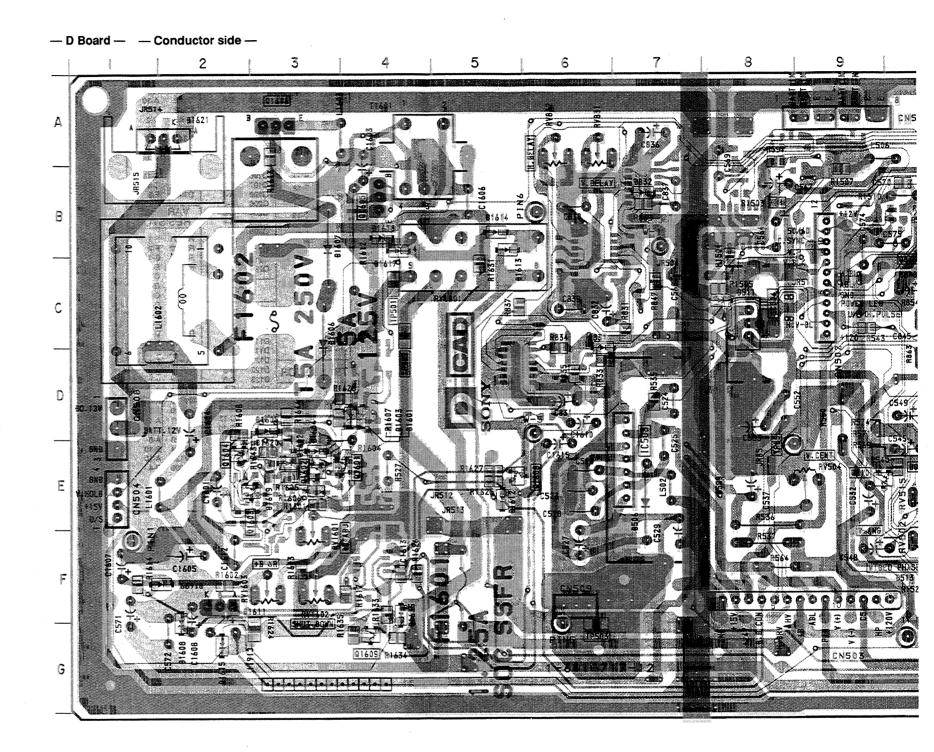
## D Board (Component S

IC	DIO
IC501 C-1 IC505 B-7 IC831 D-9 IC832 B-8 IC833 C-8 IC1601 F-11	D505 D508 D509 D510 D512 D514 D833
TRANSISTOR	D834 D836
Q505 E-11 Q508 E-11 Q509 D-11 Q512 D-3 Q525 A-6 Q532 B-6 Q533 A-6 Q1607 F-11 Q1610 E-12 Q1611 F-12 Q1613 E-13 Q1614 E-12 Q1615 D-12 Q1616 D-12 Q1616 D-12 Q1618 D-11 Q1618 D-11	D837 D838 D1609 D1610 D1616 D1625 D1625 D1626 D1627 D1628



## D Board (Component Side)

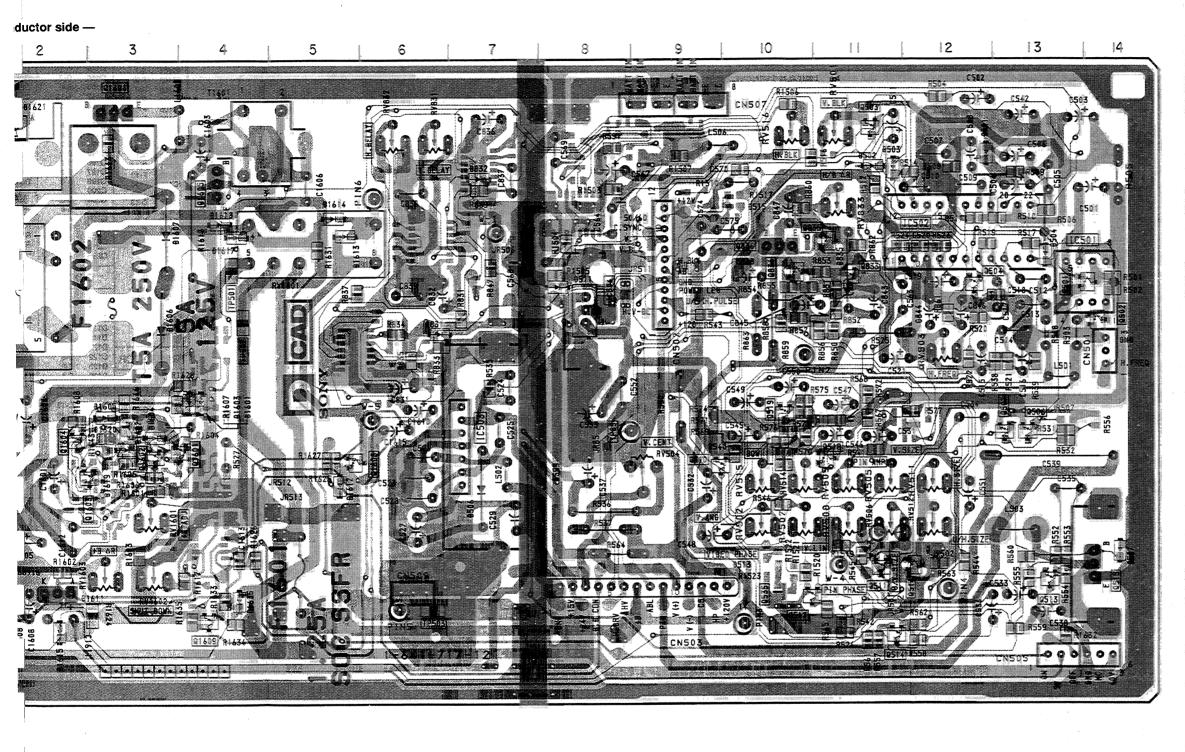
10		DIODE		
IC501 IC505 IC831 IC832 IC833 IC1601	C-1 B-7 D-9 B-8 C-8 F-11	D505 D508 D509 D510 D512 D514 D833	E-11 A-6 C-1 C-2 B-6 A-7 A-7	
TRANS	SISTOR	D834 D836	A-8 C-4	
Q505 Q508 Q509 Q512 Q525 Q532 Q533 Q1607 Q1611 Q1612 Q1613 Q1614 Q1615 Q1616 Q1616 Q1617	F-12 D-12 E-13 E-12 D-12 D-12	D837 D838 D1609 D1610 D1616 D1621 D1625 D1626 D1627 D1628	F-11 E-11 A-13 D-12 E-12	



- Pattern from the side which enables seeing.
- \* : Pattern of the rear side.

PVM-9041QM/9044QM

PVM-9041QM/9044QM



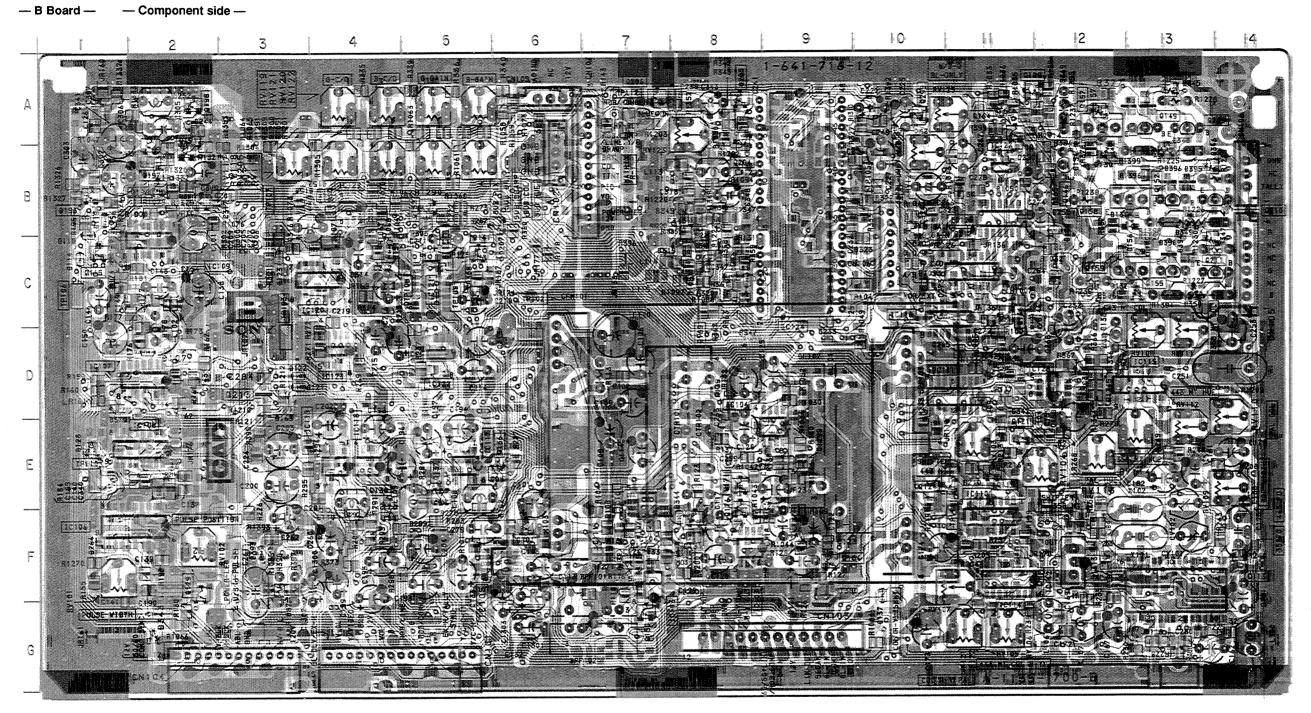
## D Board (Conductor Side)

IC		DIC	DDE	FU	SE
IC502 IC503	B-12 E-7	D501 D502	A-12 B-11	F1601	F-5
IC504	C-8	D503 D504 D506	B-11 C-13 E-7	VARI RESI	ABLE STOR
TRANS	SISTOR	D507 D511	F-14 C-8	RV501 RV502	A-11 F-10
Q501 Q502 Q503 Q506 Q507 Q511 Q513 Q514 Q515 Q516 Q517 Q519 Q833 Q834 Q835 Q836 Q1601 Q1602 Q1603 Q1604 Q1606 Q1606 Q1608 Q1608 Q1608	C-14 C-14 A-11 C-12 E-13 E-13 E-13 E-17 F-11 F-11 F-12 F-10 C-10 C-11 C-10 E-3 E-2 E-2 B-4 A-3 E-5 G-4	D599 D831 D832 D835 D1601 D1602 D1603 D1604 D1605 D1606 D1607 D1608 D1611 D1612 D1613 D1614 D1615 D1616 D1617 D1618 D1619 D1621 D1635 D1699	E-8 C-6 B-7 D-4 D-3 D-3 D-3 D-3 D-3 D-3 D-3 D-3 D-3 D-3	RV503 RV504 RV505 RV506 RV507 RV509 RV511 RV515 RV516 RV831 RV832 RV833 RV1601 RV1602 RV1603	F-10 F-11 F-11 E-12 F-11 E-10 E-10 A-10 A-6 A-6 B-11 F-3 F-3

<sup>•</sup> \_\_\_\_\_: Pattern from the side which enables seeing.

<sup>• \* :</sup> Pattern of the rear side.



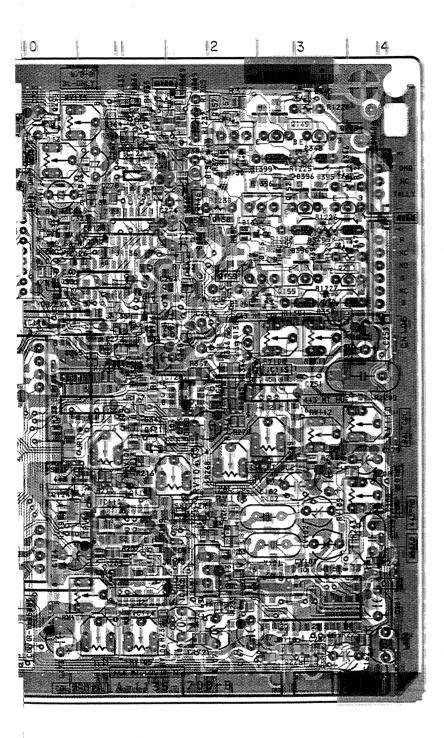


B Board (Component Side)

	ı	С	Q141 Q145	C-5 C-7	D153 D154	B B
	IC101 IC102 IC103 IC104 IC105 IC106 IC107 IC108 IC109 IC110 IC111 IC112 IC113	E-7 F-8 F-7 E-9 F-1 D-2 E-2 C-2 F-11 D-111 F-12 F-14	Q149 Q150 Q153 Q157 Q164 Q166 Q171 Q176 Q191 Q193 Q196 Q197 Q198	A-13 G-7 B-6 A-12 A-11 C-11 E-8 E-8 B-2 B-1 B-2 B-2 F-8	D156 D157 D162 D342 D343 D344 D345 D346 D347 D348 D349 D350 D393	CAADGFABCBBCF
	IC114 IC115 IC116	F-11 D-13 B-10	Q200 Q204 Q205	B-8 A-8	VAR RESI	
,	IC117 IC118 IC119 IC120 IC121	E-5 E-4 E-4 C-4 C-5	Q206 Q207 Q208 Q212 Q299	A-7 B-6 B-2 C-11 A-10	RV101 RV102 RV103 RV104 RV105	ட்டம்ம்
	IC122 IC123 IC124	D-5 D-4 A-9	DI	ODE	RV106 RV107	G
	IC125 IC126 IC127 IC128 IC129	B-11 C-11 B-11 D-12 B-4	D103 D107 D114 D118 D119 D121	F-8 D-2 C-1 B-1 B-1 D-3	RV108 RV109 RV110 RV111 RV112 RV113 RV114	Dimpinim
	TRANS	SISTOR	D122 D123	D-3 C-3	RV115 RV116	В
	Q101 Q104 Q109 Q115 Q119 Q121 Q124 Q129 Q132 Q136 Q137 Q138	F-6 F-9 A-11 C-1 E-11 E-10 F-2 B-2 E-6 E-5 F-4	D128 D130 D131 D132 D137 D138 D139 D142 D143 D146 D151	E-1 B-12 B-13 C-13 G-10 D-12 B-12 C-8 C-8 C-12 C-4 B-4	RV118 RV119 RV120 RV121 RV122 RV123 RV124 RV125 RV205	BAAAABAB

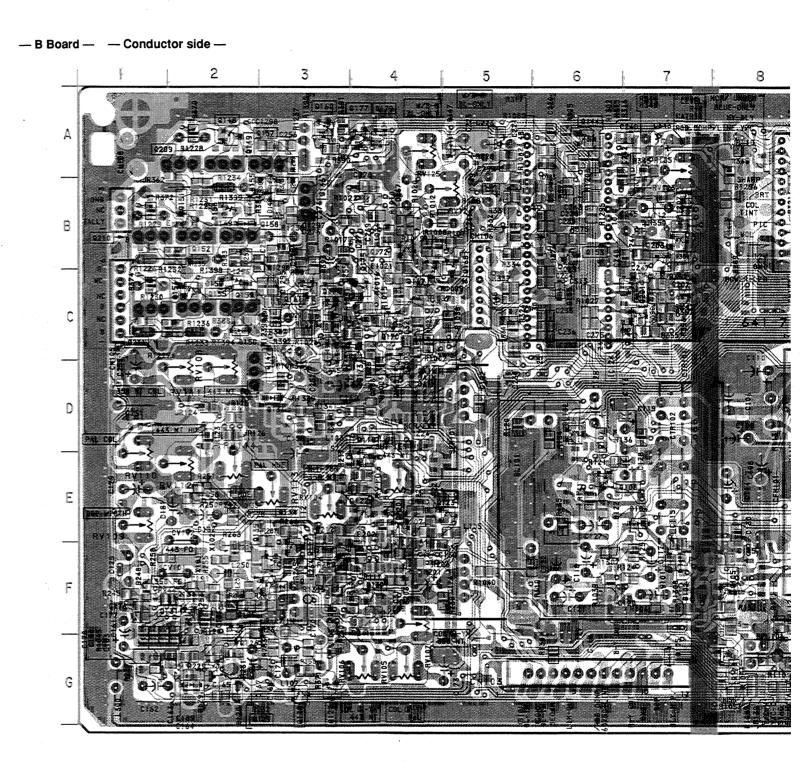
<sup>•</sup> \_\_\_\_\_: Pattern from the side which enables seeing.

<sup>•</sup> Eattern of the rear side.



F	Roard	(Compo	onent S	ide)		
	IC101 IC102 IC103 IC104 IC105	E-7 F-8 F-7 E-9 F-6	Q141 Q145 Q149 Q150 Q153 Q157 Q164 Q166	C-5 C-7 A-13 G-7 B-6 A-12 A-11 C-11	D153 D154 D156 D157 D162 D342 D343 D344	B-3 B-12 C-12 A-12 A-10 D-11 G-2 F-8
	IC106 IC107 IC108 IC109 IC110 IC111 IC112 IC113 IC114	F-1 D-2 E-2 C-2 F-11 D-11 F-12 F-14 F-11	Q171 Q176 Q191 Q193 Q196 Q197 Q198 Q200	E-8 E-8 B-2 B-1 B-2 B-2 A-2 F-8 B-8	D345 D346 D347 D348 D349 D350 D393	A-13 B-13 C-14 B-13 B-13 C-13 F-3
	IC115 IC116 IC117 IC118 IC119 IC120 IC121 IC122	D-13 B-10 E-5 E-4 E-4 C-4 C-5 D-5	Q204 Q205 Q206 Q207 Q208 Q212 Q299	A-8 A-7 B-6 B-2 C-11 A-10		F-1 F-2 E-11 E-12 G-11 G-11
	IC123 IC124 IC125 IC126 IC127 IC128 IC129	D-4 A-9 B-11 C-11 B-11 D-12 B-4	D103 D107 D114 D118 D119 D121	F-8 D-2 C-1 B-1 B-1 D-3	RV107 RV108 RV109 RV110 RV111 RV112 RV113	G-11 D-13 E-14 E-14 D-13 E-13 E-12
	TRANS	SISTOR	D122 D123	D-3 C-3	RV114 RV115 RV116	B-5 B-5
	Q101 Q104 Q109 Q115 Q119 Q121 Q124 Q129 Q132 Q136 Q137 Q138	F-6 F-9 A-11 E-11 E-10 F-2 B-2 E-6 E-5 F-4	D128 D130 D131 D132 D137 D138 D139 D142 D143 D146 D151 D152	E-1 B-12 B-13 C-13 G-10 D-12 B-12 C-8 C-8 C-12 C-4 B-4		B-4 A-4 A-5 A-4 A-5 A-8 B-10

- \_\_\_\_\_: Pattern from the side which enables seeing.
- " : Pattern of the rear side.



# onductor side -13

B Board (Conductor Side)

TRANS	SISTOR	Q158 Q159	B-3 C-2	D109	D-13
Q102 Q103 Q106 Q107 Q106 Q107 Q112 Q114 Q116 Q117 Q118 Q122 Q123 Q125 Q126 Q127 Q126 Q127 Q130 Q131 Q131 Q131 Q131 Q131 Q131 Q131	F-8 8 9 6 6 6 11 4 4 4 4 4 5 2 2 3 3 4 4 2 2 3 3 1 1 0	Q159 Q160 Q161 Q162 Q163 Q165 Q167 Q170 Q172 Q173 Q174 Q175 Q190 Q192 Q194 Q195 Q201 Q201 Q202 Q203 Q209 Q211	C-2 A-3 F-11 D-4 B-5 C-4 B-4 C-3 B-14 B-13 B-14 C-7 B-7 B-7 A-2 B-1	D110 D111 D112 D113 D115 D116 D117 D120 D124 D126 D127 D128 D133 D134 D136 D144 D145 D145 D145 D145 D155 D155 D158 D156 D156	E-13 E-14 C-13 D-13 D-13 D-13 G-2 D-19 G-2 G-6 G-6 G-6 G-3 D-3 B-2 C-2 B-2 C-11
Q142 Q143 Q144	C-9 C-10 A-6	DIC	DDE	D161 D170 D171	C-11 F-12 F-13
Q146 Q147 Q148 Q151 Q152 Q154 Q155	B-3 D-2 A-2 B-2 B-2 C-2 C-2	D101 D102 D104 D105 D106 D108	F-7 F-7 E-7 G-7 D-13 D-13	D172 D284 D285 D289 D341	F-13 D-10 D-10 B-8 B-13

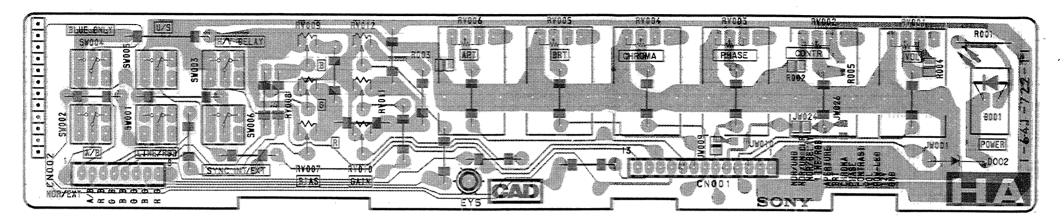
<sup>:</sup> Pattern from the side which enables seeing.

Pattern of the rear side.

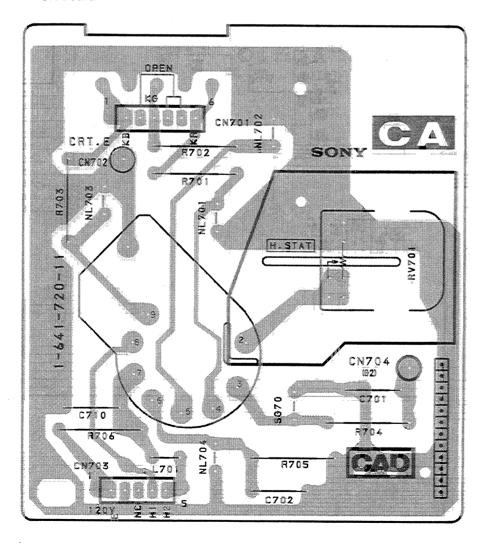




## - HA Board -



## — CA Board —



B BOARD WAVEF

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S (Y/C) 0.5Vp - p (H)

4) **(4)** 

RGB 0.8Vp - p (H)





SECAM 1.1Vp-p

8

y Congression

NTSC3.58 1Vp - p (H)



NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)

\$ (Y/C) 1Vp-1

SECAM 0.2Vp - p (H)

13

7)



12Vp-p (H)



PAL 0.7Vp - p (H)

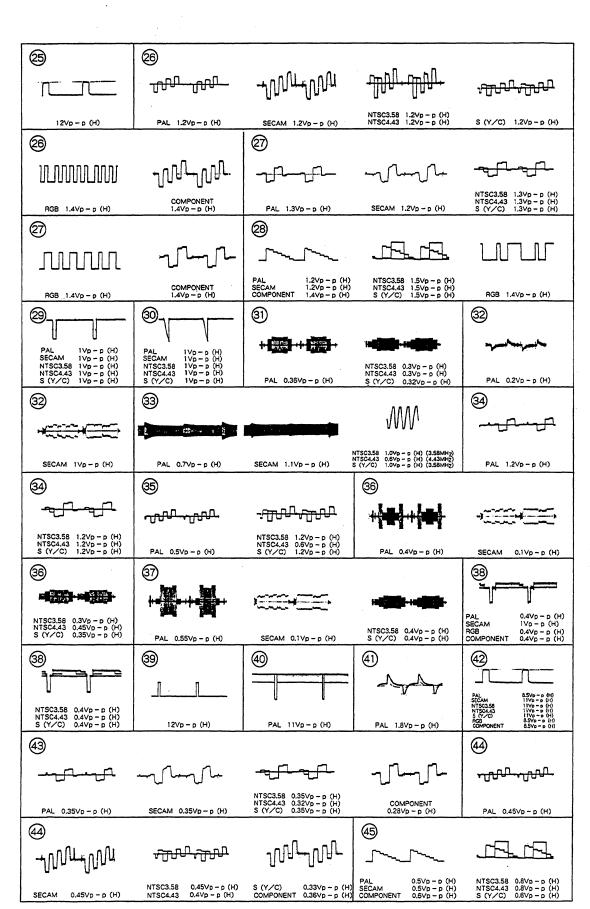
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## B BOARD WAVEFORMS

1	2	<del>*************************************</del>	3	
-	1/mulm	-17-1-		1 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
S (Y/C) 0.5Vp-p (H)	RGB 1Vp-p (H)	COMPONENT 0.5Vp - p (H)	RGB 1∨p-p (H)	COMPONENT 1Vp-p (H)
4		5		6
Unnorhood	-100-100		14-14-	
RGB 0.8Vp - p (H)	COMPONENT 0.75Vp - p (H)	PAL 1Vp - p (H)	S (Y/C) 1Vp-p (H)	PAL 0.9Vp - p (H)
6	y Congression			8
SECAM 1.1Vp - p (H)	NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H)	S (Y/C) 1Vp-p (H)	S (Y/C) 0.5Vp - p (H)	SECAM 1Vp-p(H)
(8)			9	V CO
NTSC3.58 1Vp - p (H)	NTSC4.43 1Vp - p (H)	S (Y/C) 1Vp - p (H)	PAL 0.75Vp - p (H) SECAM 0.75Vp - p (H)	NTSC3.58 1Vp - p (H)
9	10			11)
The training		110	He fact the back	+ 1111
NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)	PAL 0.2Vp - p (H)	NTSC3.58 0.3Vp-p (H)	NTSC4.43 0.15Vp - p (H)	PAL 0.3Vp - p (H)
1		12	13	
		***	Marin Maria	
SECAM 0.2Vp - p (H)	NTSC3.58 0.2Vp - p (H) NTSC4.43 0.3Vp - p (H)	\$ (Y/C) 0.2Vp - p (H)	PAL 0.9Vp - p (H) SECAM 0.9Vp - p (H)	NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)
13		14	15	16
	البهسيم الهبب			
RGB 0.8Vp - p (H)	COMPONENT 1Vp - p (H)	4Vp - p (H)	12Vp - p (H)	12Vp - p (H)
(7)	13	19	<b>②</b>	<b>1</b>
~~~			10001000	
12Vp - p (H)	12Vp - p (H)	12Vp-p (H)	SECAM 0.6Vp - p (H)	SECAM 0.5Vp - p (H)
22 	الهمية ليمية	لمضالم	<b>3</b>	<b>24</b>
7 7 7	ц ц	· · · · · · · · · · · · · · · · · · ·		[] []

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25	<b>2</b> 9		
	My My	᠆ᠰᠾᠬᡅᠽᠾᠩᡅ	<del>-11111-11111-</del>
12Vp - p (H)	PAL 1.2Vp - p (H)	SECAM 1.2Vp - p (H)	NTSC3.58 1.2Vp - p (H) NTSC4.43 1.2Vp - p (H)
<b>2</b> 6		27	1.20p - p (H)
	-1019r-101gr	-1717-	
RGB 1.4Vp - p (H)	COMPONENT 1.4Vp - p (H)	PAL 1.3Vp - p (H)	SECAM 1.2Vp - p (H)
<b>27</b>		28	
MMM.	7/1-1/1-	~~~~	A.A.
RGB 1.4Vp - p (H)	COMPONENT 1.4Vp - p (H)	PAL 1.2Vp - p (H SECAM 1.2Vp - p (H COMPONENT 1.4Vp - p (H	) NTSC4.43 1.5Vp - 0 (H)
(a)	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	3)	
PAL 1Vp - p (H) SECAM 1Vp - p (H)	PAL 1Vp - p (H) SECAM 1Vp - p (H)	+ 555 ++ 555 +	
NTSC3.58 1Vp-p (H) NTSC4.43 1Vp-p (H) S (Y/C) 1Vp-p (H)	SECAM 1Vp - p (H) NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)	PAL 0.36Vp - p (H)	NTSC3.58 0.3Vp - p (H) NTSC4.43 0.3Vp - p (H) \$ (Y/C) 0.32Vp - p (H)
32	33		0.0.0.0
****	Landon 11		\\\\\
SECAM 1Vp-p (H)	PAL 0.7Vp - p (H)	SECAM 1.1Vp - p (H)	NTSC3.58 1.0Vp - p (H) (3.58MH <sub>2</sub> ) NTSC4.43 0.6Vp - p (H) (4.43MH <sub>2</sub> ) S (Y/C) 1.0Vp - p (H) (3.58MH <sub>2</sub> )
34	35		36
مليملي	<u> </u>	-1777-177	+
NTSC3.58 1.2Vp - p (H) NTSC4.43 1.2Vp - p (H) S (Y/C) 1.2Vp - p (H)	PAL 0.5Vp - p (H)	NTSC3.58 1.2Vp - p (H) NTSC4.43 0.6Vp - p (H) S (Y/C) 1.2Vp - p (H)	PAL 0.4Vp - p (H)
39	37		FAL 0.4VP-P (H)
THE PERSON NAMED IN	h <del>a</del> a-ha		-
NTSC3.58 0.3Vp - p (H) NTSC4.43 0.45Vp - p (H) S (Y/C) 0.35Vp - p (H)	PAL 0.55Vp - p (H)	SEC.M. 0.1/2 - (12)	NTSC3.58 0.4Vp - p (H)
38	39	SECAM 0.1Vp - p (H)	s (Y/C) 0.4Vp - p (H)
			MA
NTSC3.58 0.4Vp - p (H) NTSC4.43 0.4Vp - p (H) S (Y/C) 0.4Vp - p (H)	13/40 = 0 (H)	BH 411/2 63	
(43)	12Vp - p (H)	PAL 11Vp-p (H)	PAL 1.8Vp - p (H)
	N N-		- n n-
<u>_</u>	<u> </u>	NTSC3.58 0.35Vp - p (H)	
PAL 0.35Vp - p (H)	SECAM 0.35Vp - p (H)	NTSC4.43 0.32Vp - p (H) S (Y/C) 0.35Vp - p (H)	COMPONENT 0.28Vp - p (H)
44)		מתח בתח	45
-4Mnn-4Mnn	<u> դ Որը,                                   </u>	<u> </u>	
SECAM 0.45Vp - p (H)	NTSC3.58 0.45Vp - p (H) NTSC4.43 0.4Vp - p (H)	S (Y/C) 0.33Vp - p (H) COMPONENT 0.36Vp - p (H)	PAL 0.5Vp - p (H) SECAM 0.5Vp - p (H) COMPONENT 0.6Vp - p (H)

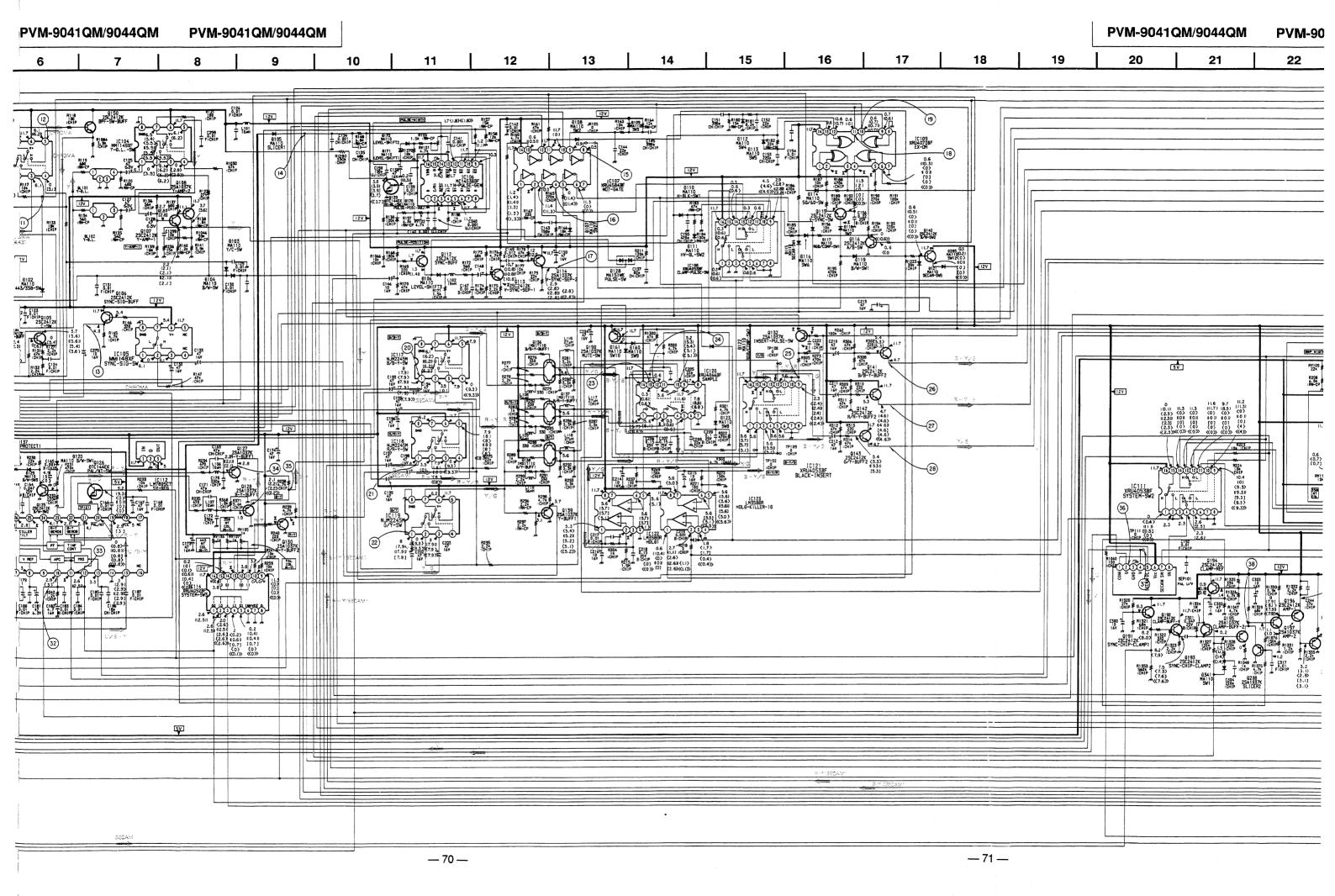
	ماليهمي الهميم
RGB 1∨p-p (H)	COMPONENT 1Vp-p (H)
	(6)
THE THE	Hala
(Y/C) 1Vp-p(H)	PAL 0.9Vp - p (H)
)	8
100000-100000-	
s (Y/C) 0.5Vp-p (H)	SECAM 1Vp-p (H)
9	V V
PAL 0.75Vp - p (H) ECAM 0.75Vp - p (H)	NTSC3.58 1Vp - p (H)
	11)
	+ 33 -+ 33
NTSC4.43 0.15Vp - p (H)	PAL 0.3Vp - p (H)
Marie Marie	14-14-
AL 0.9Vp - p (H) ECAM 0.9Vp - p (H)	NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)
3	16
12Vp - p (H)	12Vp - p (H)
)	20
-4000-4000	
ECAM 0.6Vp - p (H)	SECAM 0.5Vp - p (H)
3)	24
12Vp-p (H)	12Vp - p (H)

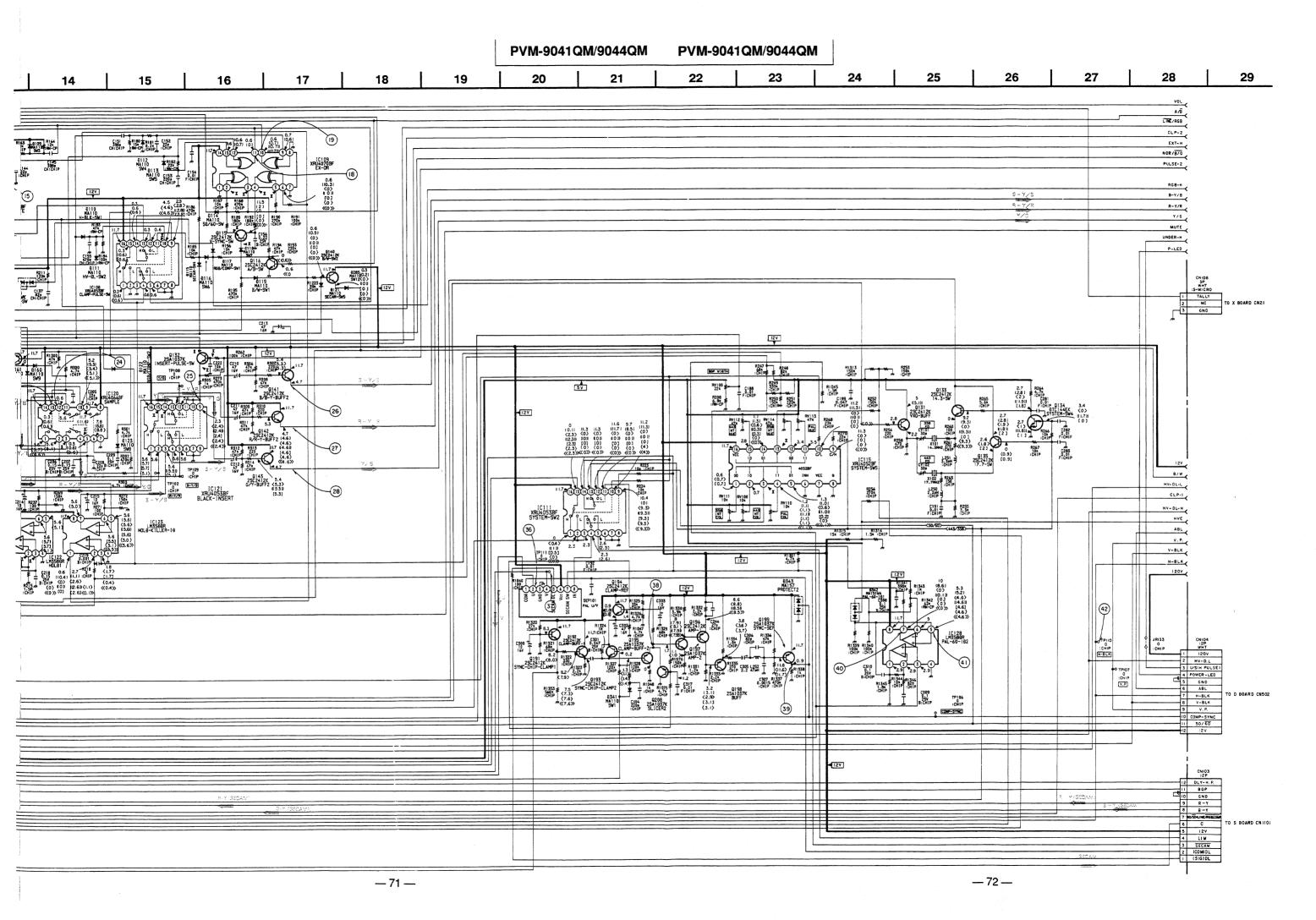


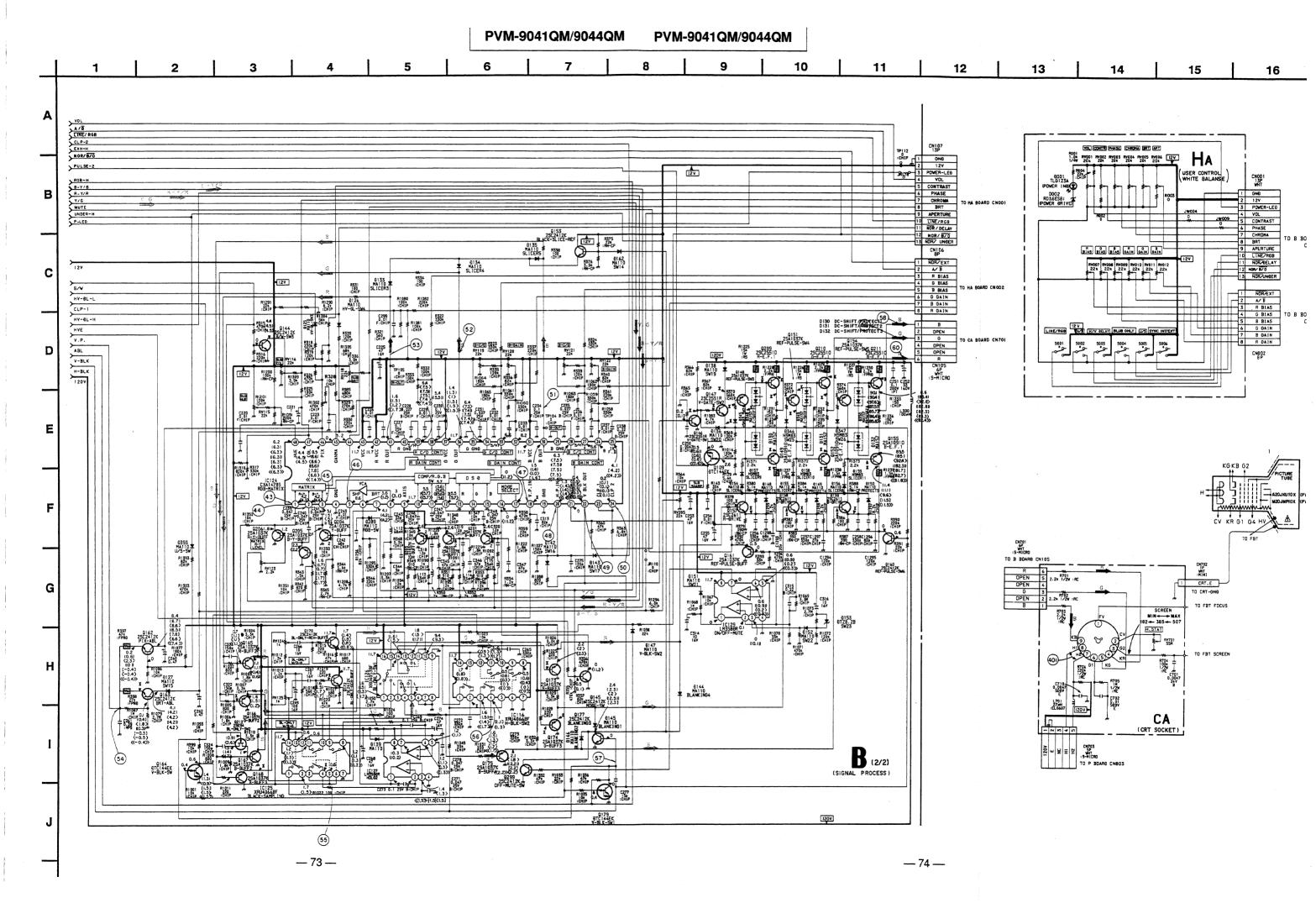
46				
-		1	<del>-++++++++++++++++++++++++++++++++++</del>	<del></del>
PAL 0.36Vp - p (H)	SECAM 0.35Vp - p (H)	NTSC3.58 0.8Vp - p (H)	NTSC4.43 0.6Vp - p (H)	S (Y/C) 0.8Vp - p (H)
46	47	48,	49	60
COMPONENT 0.3Vp - p (H)	4.6Vp - p (V)	10.4Vp - p (V)	3.5∨p − p (V)	(H) q − q∨3.£
<b>(51)</b>			N.	
-hw-hvn	Marylan	र क्रिप्प कियु	lwwlww	rhwwhw
PAL 2.6Vp - p (H)	SECAM 3Vp-p(H)	NTSC3.58 3.2Vp - p (H) NTSC4.43 3.2Vp - p (H) S (Y/C) 3.2Vp - p (H)	COMPONENT 3Vp - p (H)	RGB 2.7Vp - p (H)
<b>1</b>				
n 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	-اس-ساس-		Hall the state of	7
PAL 2.6Vp - p (H)	SECAM 2.6Vp - p (H)	NTSC3.58 3.4Vp - p (H) NTSC4.43 3.4Vp - p (H) S (Y/C) 3.4Vp - p (H)	RGB 2.7Vp - p (H)	COMPONENT 3Vp - p (H)
<b>6</b> 3		•		
15.5	1	ما المستبيد المستبيد	The training	1-1-1-1
PAL 2.5Vp - p (H)	SECAM 2.6Vp - p (H)	NTSC3.58 3.1Vp - p (H) NTSC4.43 3.1Vp - p (H) S (Y/C) 3.1Vp - p (H)	RGB 2.6Vp - p (H)	COMPONENT 2.8Vp - p (H)
54		<b>6</b> 5	66	<b>5</b>
PAL 0.6Vp - p (V)				
SECAM 0.6Vp - p (V) RGB 0.6Vp - p (V) COMPONENT 0.6Vp - p (V)	NTSC3.58 0.9Vp - p (V) NTSC4.43 1Vp - p (H) S (Y/C) 0.7Vp - p (V)	11Vp - p (H)	(H) q - qV01	2.4∨p - p (H)
58				
morant	Mondon	भीत्र भीत्।	ממו המתחות הח	_lvvr_lvvn
PAL 72Vp - p (H)	SECAM 80Vp - p (H)	NTSC3.58 86Vp - p (H) NTSC4.43 90Vp - p (H) S (Y/C) 86Vp - p (H)	RGB 70Vp-p (H)	COMPONENT 80Vp - p (H)
69				
]	المراسر			J
PAL 76Vp - p (H)	SECAM 72Vp - p (H) NTSC3.58 72Vp - p (H)	NTSC4.43 90Vp-p (H) S (Y/C) 86Vp-p (H)	RGB 70Vp-p(H)	COMPONENT 80Vp - p (H)
60				
~~~~~	ساسا		اسراسرا	777 J
PAL 56Vp - p (H)	SECAM 64Vp-p(H)	NTSC3.58 80Vp - p (H) NTSC4.43 90Vp - p (H) S (Y/C) 80Vp - p (H)	RGB 70Vp-p(H)	COMPONENT 80Vp - p (H)

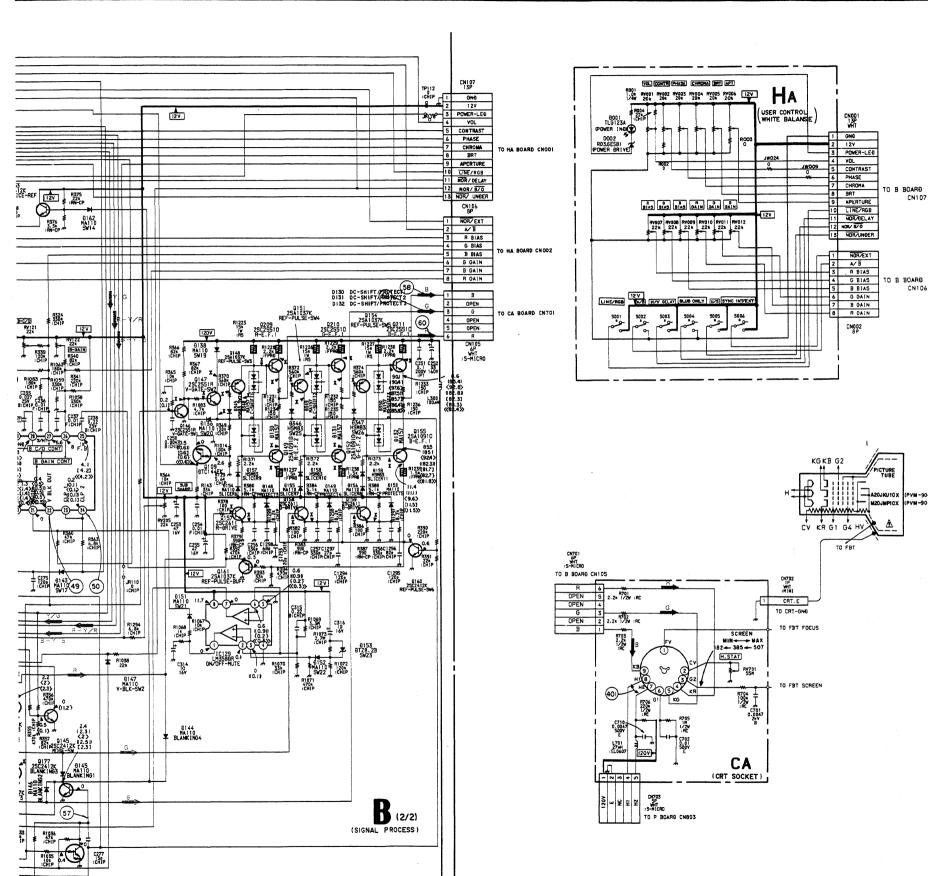
PVM-9041QM/9044QM PVM-9041QM/9044QM 2 3 5 10 T CHICHIP CN102 3P WHT :S-HICRO 190 1 c130 1 c13 #130 # 100k # 100k # 100k # 120 BL102 Y-8.L. 8103 MA110 Y/C-5W 1C102 HN1149XF 1 1 1 1 29 1 0.01 m 425 400 443 400 400 453 8104 MA110 C130 T B/V-5V 0.01 C146 ₹RI 10 ₹47 16V :CH 8/8-Y D IC117 NJM2245 B/B-Y-5 8 (7.5 C193 (7.5 47.9 16V (7.9 ) + (7.5 (7.5 C198) 16V | C179 3010 J 0128 C179 3010 J 128 C179 3010 J 0128 C179 21 c199 IC110 XRU4053BF SYSTEM-SWI R239 4.7k ₹ IC119 NJM2245N G/Y-SW 30 | CONT | MACC | VREF | MAC | VREF | V 32 (31) B (1/2) ( SIGNAL PROCESS ) -- 69 ---

**— 68 —** 







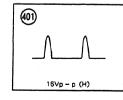


## — B Board —

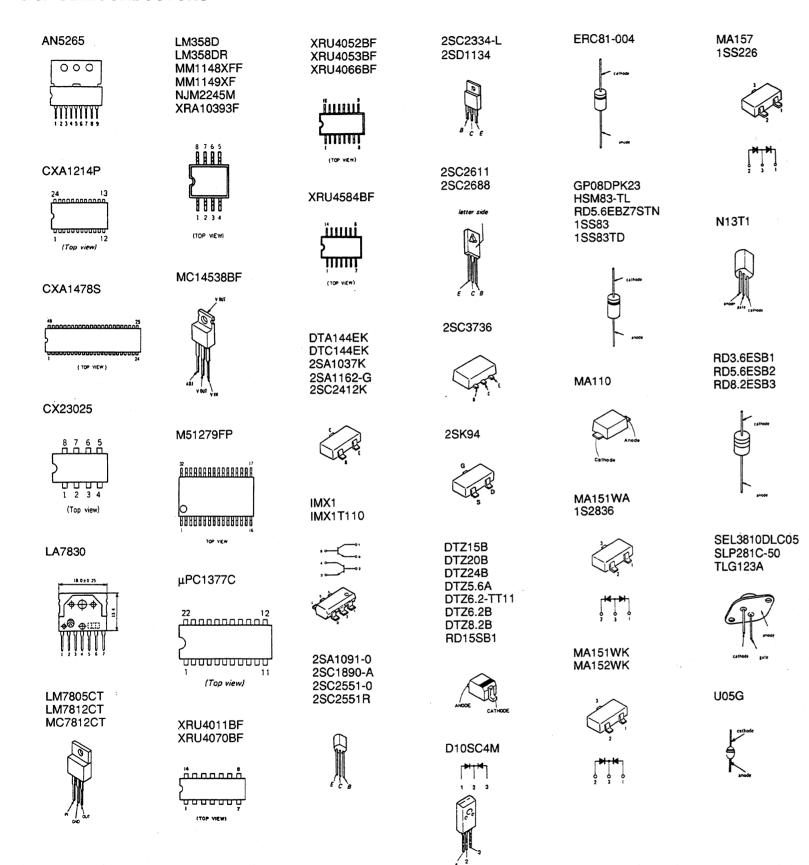
X	< TRANSISTOR >							
		PAL	SECAM	NTSC 3.58	NTSC 4.43	S (Y/C)	ANALOG RGB	COMPO- NENT
Q113	Ε	0.5	0.5	0.4	0.4	0.5	0.5	0.5
	В	1.0	1.0	0.9	0.9	0.9	0.9	1.0
Q115	Ε	11.2	9.3	0.0	10.6	0.0	0.0	0.0
	В	2.8	2.2	0.1	2.4	0.1	0.1	0.0
Q118	E	0.0	0.0	1.7	1.7	1.7	1.7	1.7
Q119	В	0.1	0.0	1.7	1.7	1.7	1.7	1.7
Q121	Ε	0.0	0.0	1.7	1.7	1.7	1.7	1.7
Q122	В	0.0	0.0	1.7	1.7	1.7	1.7	1.7
Q130	Ε	4.3	4.3	4.4	4.4	4.5	4.4	4.4
	В	3.7	3.7	3.8	3.8	3.9	3.8	3.8
Q132	Ε	2.3	2.3	2.4	2.3	2.4	2.4	2.4
	С	1.8	1.7	1.7	1.7	1.7	1.8	1.8
	В	2.7	2.6	2.6	2.7	2.8	2.7	2.8
Q146	С	116.7	114.4	110.4	113.2	113.7	114.3	114.1
Q147	Ε	117.9	115.8	111.6	114.5	115.0	115.5	115.4
	С	126.0	123.5	120.3	123.4	123.8	124.6	124.4
	В	119.8	119.5	110.5	118.4	118.2	114.2	114.2
Q148	С	86.1	84.9	91.2	83.4	82.6	82.5	82.2
	В	94.0	93.3	86.3	92.4	92.1	94.2	90.6
Q149	Ε	1.6	1.6	1.4	1.7	1.7	1.7	1.7
	С	86.1	84.9	91.2	83.4	82.7	82.5	82.5
Q151	Ε	90.7	91.4	98.0	87.9	87.0	86.5	88.4
	С	89.2	89.8	96.5	88.4	85.3	84.9	84.7
	В	92.1	92.7	100.2	89.5	92.4	90.5	88.9
Q152	E	86.1	88.0	92.6	82.6	82.9	82.6	82.7
	O	10.8	10.5	9.7	10.9	10.9	10.9	11.0
Q154	В	92.5	92.9	99.8	90.1	88.7	90.4	89.2
Q155	В	88.3	88.5	95.7	85.7	83.9	84.6	83.9
Q157	Ε	82.4	81.1	87.5	79.9	79.9	80.8	79.4
	В	86.0	84.8	91.2	84.4	82.7	82.5	82.1
Q158	Ε	1.6	1.5	1.3	1.6	1.6	1.7	1.7
	В	2.1	2.0	1.8	2.1	2.2	2.2	2.2
Q159	E	1.6	1.8	1.3	1.8	1.7	1.7	1.7
	В	2.2	2.1	1.5	2.1	2.2	2.2	2.2
Q163	Ε	0.2	0.6	2.7	0.5	-0.5	-0.7	-0.6
Q166	В	0.9	0.9	0.6	1.0	1.0	1.0	1.0
Q168	ပ	2.1	2.0	1.6	2.1	2.2	2.1	2.2
Q170	В	2.3	2.3	2.1	2.4	2.4	2.4	2.4
Q172	В	2.2	2.1	1.9	2.2	2.3	2.2	2.3
Q173	В	1.7	1.6	1.4	1.7	1.7	1.7	1.7
Q174	Ε	2.1	2.0	1.8	2.1	2.2	2.2	2.2
	В	1.6	1.5	1.3	1.6	1.6	1.7	1.7
Q178	В	6.2	6.3	6.2	6.3	6.1	8.2	6.2
Q209	Ε	83.4	81.5	87.9	80.3	80.4	80.4	79.8
	С	115.8	113.2	110.7	113.2	113.8	114.5	114.2
	В	87.8	86.4	92.8	85.0	84.3	84.2	83.8
Q210	Ε	86.5	86.3	93.1	83.0	83.3	83.0	82.8
	С	116.5	114.2	111.5	113.9	114.5	115.1	114.9
Q211	С	115.9	113.6	111.7	113.3	113.8	114.5	114.3

< IC >													
		PAL	SECAM	NTSC 3.58	NTSC 4.43	s (Y/C)	ANALOG RGB	COMPO- NENT					
IC102	0	6.6	6.8	0.0	6.6	0.0	0.0	0.0					
IC108	0	0.2	0.1	0.1	0.1	0.1	0.1	0.2					
	<b>④</b>	1.8	1.7	1.7	1.7	1.7	1.8	1.8					
IC107	0	10.7	10.7	10.8	10.6	10.8	10.6	10.8					
	0	1.2	10.7	0.0	0.0	0.0	0.0	0.0					
IC108	0	9.7	0.4	9.7	9.6	9.6	1.1	9.8					
IC109	2	11.3	11.3	0.0	10.8	0.0	0.0	0.0					
	3	11.3	11.4	0.0	11.3	0.0	0.0	0.0					
	<b>(4)</b>	11.7	0.0	0.0	11.7	0.0	0.0	0.0					
	(3)	11.0	11.1	0.0	11.0	0.0	0.0	0.0					
IC110	<b>④</b>	2.1	2.2	2.5	2.5	2.5	2.5	2.5					
	0	11.3	11.3	0.0	11.3	0.0	0.0	0.0					
	0	11.3	11.3	0.0	0.0	0.0	0.0	0.0					
	8	0.8	0.8	2.5	2.5	2.5	2.5	2.5					
	9	1.7	1.7	2.5	2.6	2.5	2.5	2.5					
IC113	<b>④</b>	2.7	1.1	2.6	2.6	2.6	1.1	1.1					
	0	4.2	4.3	4.2	4.3	4.3	4.8	4.8					
	0	3.0	2.9	2.8	3.0	2.8	2.9	2.9					
	8	2.2	2.5	2.9	2.2	1.9	2.8	2.8					
IC114	0	11.4	11.3	0.0	0.0	0.0	0.0	0.0					
	3	3.7	3.7	3.8	3.8	3.8	3.9	3.9					
IC115	3	1.2	1.1	0.6	0.7	0.7	0.6	0.6					
	13	3.5	3.5	3.4	2.8	3.4	3.4	3.4					
IC118	0	0.0	0.0	1.0	1.1	1.1	1.3	1.1					
IC120	3	5.5	5.6	5.6	5.6	5.6	5.6	5.6					
	<b>(4)</b>	5.5	5.6	5.6	5.6	5.6	5.0	5.8					
IC121	3	5.3	5.3	5.4	5.2	5.2	5.1	5.1					
	•	5.8	5.7	5.6	5.6	5.7	5.7	5.7					
	(3)	5.6	5.7	5.8	5.6	5.7	5.7	5.6					
IC122	2	5.3	5.3	5.4	5.2	5.2	5.1	5.1					
	3	5.3	5.3	5.4	5.2	5.2	5.1	5.1					
IC124	⊜	0.1	0.1	0.2	0.2	0.2	0.2	0.2					
IC125	<b>④</b>	1.4	1.4	1.3	1,4	1.5	1.5	1.5					
IC128	8	1.6	1.5	1.3	1.6	1.6	1.7	1.6					
	3	1.6	1.5	1.3	1.8	1.8	1.8	1.7					
	0	1.7	1.6	1.4	1.7	1.7	1.6	1.7					
IC127	0	3.0	2.9	2.6	3.0	3.1	3.0	3.0					
	2	1.4	1.4	1.3	1.5	1.5	1.5	1.5					
	0	2.1	2.7	2.4	2.8	2.8	2.8	2.8					

## **CA BOARD WAVEFORM**



## 6-6. SEMICONDUCTORS



NOTE:
• Items with

not stocker routine ser
The constr indicated v column.

7-1. CH/

●: BVTP3: ▲: BVTP3:





REF. NO. PART

1 X-40
1 X-40
2 4-03
3 \*4-03
4 \*4-03
5 \*4-03
6 \*1-64
7 1-54
8 \*A-11
9 \*A-13
10 \$\Delta 1-41
11 A-13
12 \$\Delta 1-57
13 \*A-11
14 \$\Delta 1-43

## **SECTION 7 EXPLODED VIEWS**

## NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- · The construction parts of an assembled part are indicated with a collation number in the remark column.

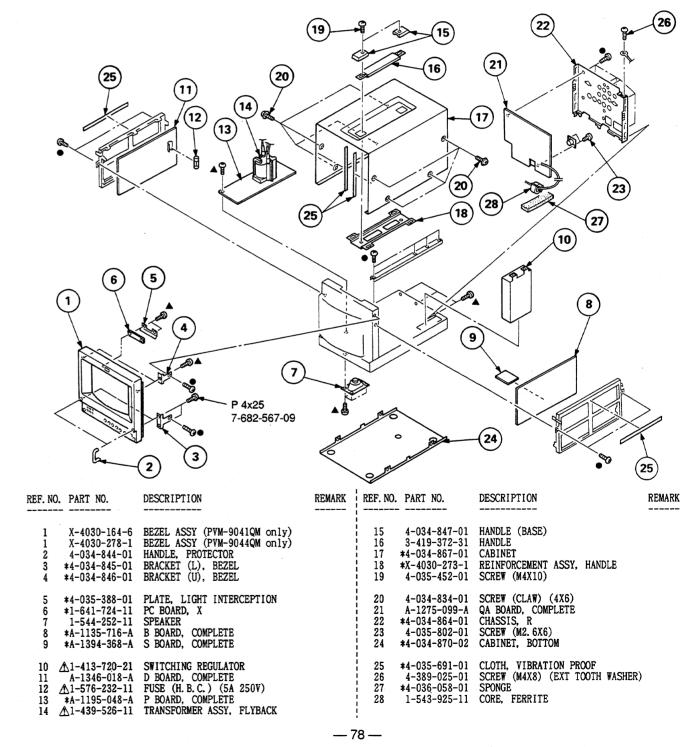
Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these

The components identified by shading and mark  $\Lambda$  are critical for safety.

Replace only with part number specified.

## 7-1. CHASSIS

- ●: BVTP3x8 7-685-646-79
- ▲: BVTP3x12 7-685-648-79



MA157 1SS226





STN

N13T1



RD3.6ESB1 RD5.6ESB2 RD8.2ESB3



SEL3810DLC05 SLP281C-50 TLG123A

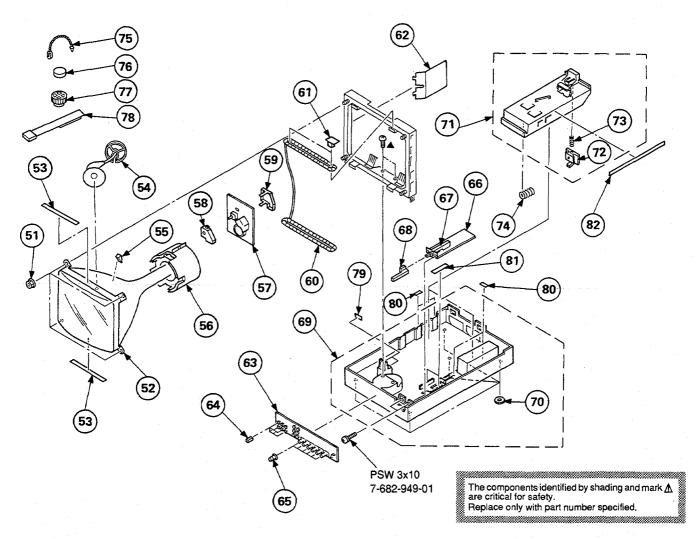


U05G



## 7-2. PICTURE TUBE

▲ : BVTP3x12 7-685-648-79



REF. NO. PART NO	DESCRIPTION	REMARK REF. 1	NO. PART NO.	DESCRIPTION	REMARK
52 A 8-737-6 52 A 8-737-6 53 4-035-3	511-00 FLANGE NUT, 5MM 151-05 CRT A20JKU10X (PYM-9041C 351-05 CRT A20JMP10X (PYM-9044C 332-01 CLOTH, PROTECTION	M only) 67 M only) 68 M only) 69	4-034-841-01		1 KEY)
54 *4-034-8	356-01 HOLDER, HV CABLE	70 71	4-034-840-01 *X-4030-163-1		
55 4-309-3 56 △ 1-451-3	319-22 DEFLECTION YOKE (Y9FXC)	72		SPRING, COMPRESSION	
57 *1-641-7 58 *4-376-1	133-11 COVER (MAIN), CV VOL	74			
59 *4-376-1	· · · · · · · · · · · · · · · · · · ·	76		MAGNÉT	
60 \( \Lambda \) 1-426-0	534-01 CAP, DGC	77 78	X-4308-815-0	PERMALLOY ASSY, CONVERGEN	
62 *4-034-8 63 *A-1371-	-782-A HA BOARD, MOUNTED	79	*4-036-047-02		
64 4-034-8	· · · · · · · · · · · · · · · · · · ·	80 81	3-831-441-11	CUSHION (F)	
65 X-4030- 66 *1-641-7		82	*4-035-691-01	CLOTH, VIBRATION PROOF	



**SECTION 8 ELECTRICAL PARTS LIST** 

NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety.

Replace only with part number specified.

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

### RESISTORS

- All resistors are in ohms F: nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

MF: μF, PF: μμF

MMH: mH, UH: μH

The components identified by M in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally

REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION.		REMARK
*A-1135-716-A 3-710-578-01	B BOARD, COMPLETE ***********************************			C142 C143 C144 C145 C145		CERAMIC CHIP 0.01MF CERAMIC CHIP 150PF CERAMIC CHIP 22PF CERAMIC CHIP 390PF ELECT 10MF	5% 5% 5% 20%	50V 50V 50V 50V 16V
BPF101 1-236-363-11 BPF102 1-236-364-11	FILTER, BAND PASS FILTER, BAND PASS			C147 C148 C149 C150 C151	1-164-232-11 1-126-160-11 1-163-022-00 1-124-589-11 1-163-131-00	CERAMIC CHIP 0.01MF ELECT 1MF CERAMIC CHIP 0.012MF ELECT 47MF CERAMIC CHIP 390PF	10% 20% 10% 20% 5%	50V 50V 50V 16V 50V
C101 1-124-589-11 C102 1-163-031-11 C103 1-126-157-11 C104 1-163-031-11 C105 1-163-031-11	ELECT 47MF CERAMIC CHIP 0.01MF ELECT 10MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	20%	16V 50V 16V 50V 50V	C152 C153 C154 C155 C156	1-163-101-00 1-163-125-00 1-163-031-11 1-163-133-00 1-164-299-11	CERAMIC CHIP 22PF CERAMIC CHIP 220PF CERAMIC CHIP 0.01MF CERAMIC CHIP 470PF CERAMIC CHIP 0.22MF	5% 5% 5% 10%	50V 50V 50V 50V 25V
C106 1-124-477-11 C107 1-163-031-11 C108 1-124-477-11 C109 1-124-477-11 C110 1-124-120-11	ELECT 47MF CERAMIC CHIP 0.01MF ELECT 47MF ELECT 47MF ELECT 220MF	20% 20% 20% 20%	16V 50V 16V	C157 C158 C159 C160 C161	1-163-229-11 1-124-477-11 1-163-229-11 1-163-229-11 1-124-902-00	CERAMIC CHIP 12PF ELECT 47MF CERAMIC CHIP 12PF CERAMIC CHIP 12PF ELECT 0.47MF	5% 20% 5% 5% 20%	50V 16V 50V 50V 50V
C111 1-163-031-11 C112 1-163-031-11 C113 1-163-031-11 C114 1-124-477-11 C115 1-163-031-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF ELECT 47MF CERAMIC CHIP 0.01MF	20%	50V 50V 50V 16V 50V	1 -1-0	1 103 031 11	ELECT 0.47MF  ELECT 1MF  CERAMIC CHIP 0.047MF  CERAMIC CHIP 0.001MF  CERAMIC CHIP 0.001MF		50V 25V 25V 50V 50V
C116 1-124-589-11 C117 1-126-154-11 C118 1-126-154-11 C119 1-163-031-11 C120 1-126-154-11	ELECT 47MF ELECT 47MF ELECT 47MF CERAMIC CHIP 0.01MF ELECT 47MF	20% 20% 20% 20%	16V 6.3V 6.3V 50V 6.3V	C167 C168 C169 C170 C171	1-124-477-11 1-163-031-11 1-163-243-11 1-163-129-00 1-163-243-11	ELECT 47MF CERAMIC CHIP 0.01MF CERAMIC CHIP 47PF CERAMIC CHIP 330PF CERAMIC CHIP 47PF	20% 5% 5% 5%	16V 50V 50V 50V 50V
C121 1-124-477-11 C122 1-124-477-11 C123 1-163-031-11 C124 1-163-031-11 C125 1-126-154-11	ELECT 47MF ELECT 47MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF ELECT 47MF CERAMIC CHIP 0.01MF ELECT 47MF ELECT 47MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	20% 20% 20%	16V 16V 50V 50V 6.3V	C172 C173 C174 C175 C176	1-163-129-00 1-124-589-11 1-124-477-11 1-108-792-11 1-163-031-11	CERAMIC CHIP 330PF ELECT 47MF ELECT 47MF MYLAR 0.001MF CERAMIC CHIP 0.01MF	5% 20% 20% 5%	50V 16V 16V 50V 50V
C126 1-163-031-11 C127 1-126-154-11 C128 1-126-154-11 C129 1-163-031-11 C130 1-163-031-11	CERAMIC CHIP 0.01MF ELECT 47MF ELECT 47MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	20% 20%	50V 6.3V 6.3V 50V 50V			CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF ELECT 1MF CERAMIC CHIP 0.01MF BLECT 47MF		50V 50V 50V 50V 6.3V
C131	CERAMIC CHIP O.OIMF	20% 20% 5% 5%	50V 16V 16V 50V 50V	C182 C183 C184 C185 C186	1-126-163-11 1-164-232-11 1-163-031-11 1-163-031-11 1-163-099-00	ELECT 4.7MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 18PF	20% 10% 5%	16V 50V 50V 50V 50V
C137 1-163-115-00 C138 1-124-589-11 C139 1-163-031-11 C140 1-163-205-00 C141 1-163-141-00	CERAMIC CHIP 82PF ELECT 47MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	5% 20% 5% 5%	50V 16V 50V 50V 50V	C187 C188 C189 C190 C191	1-163-031-11 1-163-031-11 1-163-035-00 1-163-121-00 1-163-031-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.047MF CERAMIC CHIP 150PF CERAMIC CHIP 0.01MF	5%	50V 50V 50V 50V 50V



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C192 C193	1-163-031-11 1-124-589-11	CERAMIC CHIP	0.01MF 47MF	20%	50V 16V		1-163-031-11	CERAMIC CHIP	0.01MF		50V
C194 C195	1-124-589-11 1-124-589-11 1-124-589-11	ELECT ELECT ELECT	47MF 47MF 47MF		16V 16V 16V	C261 C262 C264	1-124-465-00 1-137-193-11 1-124-465-00 1-163-123-00	FILM ELECT CERAMIC CHIP	0.39MF 0.47MF 180PF	20% 5% 20% 5% 5%	50V 50V 50V 50V
C197 C198 C199 C202 C203	1-124-589-11 1-124-589-11 1-124-589-11 1-124-589-11 1-124-589-11	ELECT ELECT ELECT	47MF 47MF 47MF 47MF 47MF	20% 20% 20% 20% 20%	16V 16V 16V 16V 16V	C265 C266 C267 C268	1-163-129-00 1-126-320-11 1-126-320-11 1-124-477-11 1-164-004-11	ELECT ELECT ELECT	10MF 10MF 47MF	20% 20% 20%	50V 16V 16V 16V
		ELECT CERAMIC CHIP	47MF 22PF		16V 50V	C270	1-164-004-11	CERAMIC CHIP	O. 1MF	10% 10%	25V 25V
C206 C207 C208	1-124-589-11 1-163-101-00 1-164-298-11 1-164-298-11 1-163-101-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP			25V 25V 50V	C271 C272 C273 C274	1-163-809-11 1-163-129-00 1-163-129-00 1-124-477-11	CERAMIC CHIP	330PF	10% 5% 5% 20%	25V 50V 50V 16V
C209 C210 C211	1-164-004-11 1-124-589-11 1-124-589-11	CERAMIC CHIP ELECT ELECT	0.1MF 47MF 47MF 47MF 47MF	10% 20% 20%	25V 16V 16V	C275	1-163-119-00 1-163-097-00 1-163-809-11	CERAMIC CHIP		5%	50V 50V
C212 C213	1-124-589-11 1-124-589-11	ELECT ELECT			16V 16V	C278 C279 C280	1-163-809-11 1-126-157-11 1-163-117-00 1-163-031-11	ELECT CERAMIC CHIP	10MF 100PF	20% 5%	25V 16V 50V
C214 C215 C216	1-126-157-11 1-126-157-11 1-126-157-11	ELECT ELECT ELECT	10MF 10MF 10MF 0.01MF 0.15MF	20% 20% 20%	16V 16V 16V	C281 C282	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C217	1-163-031-11 1-164-298-11	CERAMIC CHIP	0.01MF 0.15MF		50V 25V	C283 C299 C300	1-163-031-11 1-163-031-11 1-126-157-11	CERAMIC CHIP CERAMIC CHIP ELECT	0.01MF 0.01MF 10MF	20%	50V 50V 16V
C219 C220 C221	1-163-009-11 1-163-031-11 1-124-903-11	CERAMIC CHIP	0.01MF 1MF	10% 20%	50V 50V 50V	C301	1-163-809-11 1-124-589-11	CERAMIC CHIP ELECT	0.047MF	10% 20%	25V 16V
C222 C223	1-163-093-00 1-163-031-11	CERAMIC CHIP	0.01MF	5%	50V 50V	C303 C304 C305	1-126-157-11 1-163-125-00 1-124-257-00	CERAMIC CHIP	220PF 2.2MF	20% 5% 20%	16V 50V 50V
C225 C226 C227	1-124-477-11 1-163-031-11 1-163-038-00	CERAMIC CHIP	0.01MF	20%	16V 50V 25V	C306	1-163-115-00 1-163-145-00	CERAMIC CHIP	0.0015MF	5% 5%	50V
C228 C229	1-163-986-00 1-163-031-11	CERAMIC CHIP			25V 50V	C308 C309 C310	1-164-004-11 1-164-004-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 0.1MF 0.1MF	10% 10% 10%	25V 25V 25V
C230 C231 C232	1-163-038-00 1-163-986-00 1-163-031-11	CERAMIC CHIP	0.1MF 0.027MF 0.01MF	10%	25V 25V 50V	C312		CERAMIC CHIP		5% 20%	50V 50V 16V
C233 C234	1-163-031-11 1-163-038-00	CERAMIC CHIP		10%	50V 25V 25V	C314 C315 C316	1-163-115-00 1-126-157-11 1-164-299-11 1-126-157-11 1-163-031-11	CERAMIC CHIP	0.22MF 10MF	10% 20%	25V 16V 50V
C235 C236 C237	1-163-986-00 1-163-031-11 1-163-031-11	CERAMIC CHIP	0.01MF 0.01MF		50V 50V	C317	1-163-095-00	CERAMIC CHIP	12PF	5%	50V
C238 C239	1-164-299-11 1-163-809-11	CERAMIC CHIP	0.047MF	10% 10%	25V 25V	C319 C320 C321	1-163-095-00 1-163-095-00 1-163-121-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	12PF 150PF	5% 5% 5%	50V 50V 50V
C240 C241 C242	1-163-809-11 1-163-809-11 1-163-113-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.047MF 68PF	10% 10% 5%	25V 25V 50V	C322	1-163-121-00 1-163-121-00	CERAMIC CHIP CERAMIC CHIP	150PF	5% 5% 5%	50V 50V 50V
C243 C244	1-163-031-11 1-163-103-00	CERAMIC CHIP CERAMIC CHIP	27PF	5% 5%	50V 50V 50V	C340 C344 C345	1-163-205-00 1-163-092-00 1-163-109-00 1-163-109-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	9PF 47PF	0.25PF 5% 5%	50V 50V 50V
C245 C246 C247	1-163-105-00 1-163-809-11 1-163-809-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.047MF 0.047MF	10% 10% 10%	25V 25V 25V 25V	C346 C347 C1293	1-163-109-00 1-163-109-00 1-163-119-00	CERAMIC CHIP CERAMIC CHIP	47PF		50V 50V
C248 C249	1-163-809-11 1-126-101-11	ELECT CERAMIC CHIP	100MF	20%	16V 50V	C1294 C1295 C1296	1-163-119-00 1-163-119-00 1-163-115-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	120PF 120PF	5% 5% 5% 5%	50V 50V 50V
C250 C251 C252 C253	1-163-017-00 1-110-364-11 1-123-935-00 1-124-477-11	MYLAR ELECT ELECT	0.1MF 33MF 47MF	10% 20% 20%	200V 160V 16V	C1296 C1297 C1298	1-163-113-00 1-163-113-00	CERAMIC CHIP	27PF 68PF	5% 5% 5%	50V 50V
C254	1-124-477-11	CERAMIC CHIP		20%	50V 16V	C1299 C1300 C1301	1-163-093-00 1-126-160-11 1-126-160-11	CERAMIC CHIP ELECT ELECT	10PF 1MF 1MF	5% 20% 20%	50V 50V 50V
C255 C256 C257 C258	1-124-477-11 1-163-129-00 1-163-129-00 1-163-129-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	330PF 330PF	5% 5% 5%	50V 50V 50V	i	1-126-160-11	ELECT	1MF	20%	50V
				-							



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1303	1-126-160-11	ELECT 1MF	20%	50 <b>V</b>	D135 D136	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110	
	<fil< td=""><td>TER BLOCK&gt;</td><td></td><td></td><td>D137 D138</td><td>8-719-404-46 8-719-404-46</td><td>DIODE MA110 DIODE MA110</td><td></td></fil<>	TER BLOCK>			D137 D138	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110	
CFM101	1-464-880-11	FILTER BLOCK, COM	(CFB-2)		D139 D142 D143	8-719-404-46	DIODE MAILO DIODE MAILO	
	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td>8-719-404-46</td><td></td><td></td></con<>	NECTOR>				8-719-404-46		
CN101 CN102 = CN103 = CN104 CN105 =	1-506-480-11 *1-564-506-11 *1-565-503-11 1-506-477-11 *1-564-509-11	NECTOR> PIN, CONNECTOR 151 PLUG, CONNECTOR 31 CONNECTOR, BOARD ' PIN, CONNECTOR 121 PLUG, CONNECTOR 61 PIN, CONNECTOR 8P	O BOARD 12P		D145 D146 D147 D148	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110	
CN106 CN107 CN108 :	1-506-473-11 1-506-478-11 1-564-506-11	PLUG, CONNECTOR 6P PIN, CONNECTOR 8P PIN, CONNECTOR 13 PLUG, CONNECTOR 3	P		D149 D150 D151 D152 D153	8-719-404-46	DIODE MA110	
	<tra< td=""><td>P MODULE&gt;</td><td></td><td></td><td>D154 D155</td><td>8-719-404-46 8-719-404-46</td><td>DIODE MA110 DIODE MA110</td><td></td></tra<>	P MODULE>			D154 D155	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110	
CTR101 CTR102	1-236-366-11 1-236-365-11	P MODULE> MODULE, TRAP MODULE, TRAP			D156 D157 D158	8-719-404-46 8-719-901-83	DIODE MA110	
	<tr1< td=""><td>MMER&gt;</td><td></td><td></td><td>D159 D160</td><td>8-719-901-83 8-719-404-46</td><td>DIODE 1883 DIODE MAILO</td><td> </td></tr1<>	MMER>			D159 D160	8-719-901-83 8-719-404-46	DIODE 1883 DIODE MAILO	 
CV101 CV102	1-141-245-00 1-141-245-00	CAP, TRIMMER CAP, TRIMMER			D161 D162 D170	8-719-404-46	DIODE MAIIO DIODE MAIIO	
	<dio< td=""><td>DE&gt;</td><td></td><td></td><td>D171 D172</td><td>8-719-404-46 8-719-404-46</td><td>DIODE MAILO</td><td></td></dio<>	DE>			D171 D172	8-719-404-46 8-719-404-46	DIODE MAILO	
D101 D102	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110			D285 D289	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110	
D103 D104 D105	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO DIODE MAILO			D341 D342	8-719-404-46 8-719-104-34	•	
D106	8-719-404-46	DIODE MAILO			D343 D344	8-719-800-76 8-719-105-XX	DIODE 155226 DIODE RD6.2M-B1	
D107 D108	8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO			D345 D346	8-719-901-83 8-719-901-83	DIODE 1SS83 DIODE 1SS83	
D109 D110	8-719-404-46 8-719-404-46				D347 D348	8-719-901-83 8-719-800-76	DIODE 15583	
D111 D112	8-719-404-46 8-719-404-46	DIODE MA110		•	D349 D350	8-719-800-76 8-719-800-76	DIODE 1SS226	
D113 D114	8-719-404-46 8-719-404-46	DIODE MA110			D393	8-719-404-46	DIODE MA110	
D115	8-719-404-46					<del< td=""><td>AY LINE&gt;</td><td></td></del<>	AY LINE>	
D116 D117 D118	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO DIODE MAILO			DL101 DL102	1-415-632-11 1-415-633-11	DELAY LINE, Y DELAY LINE, Y	
D119 D120	8-719-404-46 8-719-404-46	DIODE MA110			33101			
D121	8-719-404-46	DIODE MAILO			10101	<10		
D122 D123 D125	8-719-404-46 8-719-404-46 8-719-404-46				IC102	8-759-048-09 8-759-501-21 8-759-501-21	IC MM1149XF IC MM1149XF IC MM1149XF	
D126	8-719-404-46	DIODE MA110			IC104 IC105	8-759-501-21	IC MM1149XF IC MM1148XF	
D127 D128	8-719-404-46 8-719-400-18	DIODE MA110 DIODE MA152WK			IC106	8-759-009-51	IC MC14538BF	
D129 D130 D131	8-719-404-46 8-719-800-76 8-719-800-76	DIODE MA110 DIODE 1SS226 DIODE 1SS226			IC107 IC108 IC109	8-759-509-57 8-759-509-17 8-759-509-37	IC XRU4584BF IC XRU4053BF IC XRU4070BF	
D132	8-719-800-76	DIODE 1SS226			IC110	8-759-509-17	IC XRU4053BF	
D133 D134	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110			IC111 IC112	8-759-509-17 8-759-924-12	IC XRU4053BF IC LM7805CT	



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1	REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
)	IC114 IC115 IC116 IC117	*	IC XRU4052BF IC XRU4052BF IC XRU4066BF IC NJM2245M			Q123 Q124 Q125 Q126 Q127	8-729-216-22 8-729-920-74 8-729-901-01	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G	
]	IC119 IC120 IC121 IC122	8-759-509-17 8-759-998-98	IC NJM2245M IC XRU4066BF IC XRU4053BF IC LM358D			Q128 Q129 Q130 Q131 Q132	8-729-901-01 8-729-216-22 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G	
}	IC124 IC125 IC126 IC127	8-759-998-98 8-752-052-62 8-759-509-05 8-759-509-17 8-759-998-98	IC CXA1478S IC XRU4066BF IC XRU4053BF IC LM358D			Q133 Q134 Q135 Q136 Q137	8-729-901-01 8-729-920-74 8-729-907-26	TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR IMX1 TRANSISTOR IMX1	
)	IC128 IC129	8-759-998-98 8-759-998-98 <coi< td=""><td>IC LM358D L&gt;</td><td></td><td></td><td>Q138 Q139 Q140 Q141 Q142</td><td>8-729-216-22 8-729-920-74 8-729-920-74</td><td>TRANSISTOR IMX1 TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR</td><td></td></coi<>	IC LM358D L>			Q138 Q139 Q140 Q141 Q142	8-729-216-22 8-729-920-74 8-729-920-74	TRANSISTOR IMX1 TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR	
)	L101 L102 L103 L104 L105	1-412-002-31	INDUCTOR INDUCTOR INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP	4.7UH		1	8-729-920-74 8-729-920-74 8-729-920-74 8-729-255-12	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2551-0 TRANSISTOR 2SC2551-0	
	L106 L107 L108 L109 L110		INDUCTOR INDUCTOR INDUCTOR	10UH 10UH 56UH 56UH 56UH		1	8-729-216-22 8-729-200-17 8-729-920-74 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-02 TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-02	
	L112 L113 L114 L115 L116	1-410-947-31	INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP	68UH 33UH 33UH 33UH 27UH		Q153 Q154	8-729-920-74 8-729-216-22 8-729-200-17 8-729-326-11	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-02 TRANSISTOR 2SC2611 TRANSISTOR 2SC2611	
	L117 L118 L250 L251 L252	1-412-011-31 1-410-997-31	INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP	27UH 27UH 2.2UH 3.3UH 47UH		Q159 Q160 Q161 Q162 Q163	8-729-326-11 8-729-920-74 8-729-216-22 8-729-920-74	TRANSISTOR 2SC2611 TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR	
	L300	1-410-482-31 <tra< td=""><td>INDUCTOR</td><td>100UH</td><td></td><td>Q164 Q165 Q166 Q167</td><td>8-729-901-01 8-729-216-22 8-729-216-22 8-729-216-22</td><td>TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G</td><td></td></tra<>	INDUCTOR	100UH		Q164 Q165 Q166 Q167	8-729-901-01 8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
	Q101 Q102 Q103 Q104 Q105	8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2	2412K-QR 2412K-QR 2412K-QR		Q168 Q170 Q171 Q172 Q173	8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SA1162-G  TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G	
	Q106 Q107 Q108 Q109 Q112	8-729-920-74 8-729-216-22 8-729-901-01 8-729-920-74	TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SA1 TRANSISTOR DTC1 TRANSISTOR 2SC2	2412K-QR 2412K-QR 1162-G 44EK 2412K-QR		Q174 Q175 Q176 Q177	8-729-216-22 8-729-216-22 8-729-216-22 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-DR	
}	Q113 Q114 Q115 Q116 Q117	8-729-920-74 8-729-216-22 8-729-920-74 8-729-920-74 8-729-216-22	TRANSISTOR 2SC2 TRANSISTOR 2SA1 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SA1	2412K-QR 162-G 2412K-QR 2412K-QR 162-G		Q191 Q192	8-729-901-01 8-729-216-22 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK  TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR	
}	Q118 Q119 Q120 Q121 Q122	8-729-920-74 8-729-216-22 8-729-216-22 8-729-920-74	TRANSISTOR 2SC2 TRANSISTOR 2SA1 TRANSISTOR 2SA1 TRANSISTOR 2SC2 TRANSISTOR 2SA1	2412K-QR 162-G 162-G 2412K-QR		Q193 Q194 Q195 Q196 Q197	8-729-920-74 8-729-920-74 8-729-216-22 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G	



	REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
	Q198 Q199 Q200 Q201 Q202	8-729-216-22 8-729-216-22 8-729-901-06 8-729-216-22 8-729-216-22	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR DT TRANSISTOR 25 TRANSISTOR 25	5A1162- 5A1162- FA144EH 5A1162- 5A1162-	-G -G -G -G			R141 R142 R143 R145	1-216-063-00 1-216-073-00 1-216-085-00 1-216-065-00 1-216-037-00	METAL GLAZE	3.9K 10K 33K 4.7K 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	Q203 Q204 Q205 Q206 Q208	8-729-216-22 8-729-216-22 8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR 25	5A1162- 5A1162- 5A1162- 5A1162- 5A1162-	-G -G -G -G			R147 R148 R155 R157 R158	1-216-089-00	METAL GLAZE METAL CHIP METAL CHIP	47K 6.8K		1/10W 1/10W 1/10W	
	Q209 Q210 Q211 Q212 Q299	8-729-255-12 8-729-255-12 8-729-109-44 8-729-920-74	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	SC2551- SC2551- SK94-X4 SC2412K	0 0    -QR			R160 R161 R163 R164	1-216-065-00 1-216-089-00		4.7K 47K 10K 12K	5% 5% 5%	1/10W 1/10W 1/10W	
		<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td>R166</td><td>1-216-681-11 1-216-635-11</td><td>METAL CHIP METAL CHIP</td><td>18K 220</td><td>0.50%</td><td>1/10W 1/10W</td><td></td></res<>	ISTOR>					R166	1-216-681-11 1-216-635-11	METAL CHIP METAL CHIP	18K 220	0.50%	1/10W 1/10W	
	JR105 JR110 JR118 JR133	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R168 R169 R170	1-216-103-00 1-216-033-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	180K 220 47K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
	JR138 JR178 R101 R102	RES 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-089-00 1-216-089-00 1-216-091-00 1-216-061-00 1-216-065-00 1-216-065-00 1-216-065-00 1-216-065-00 1-216-063-00 1-216-049-00 1-216-049-00 1-249-401-11 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 47K 100	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R171 R172 R173 R174 R175	1-216-053-00 1-216-043-00 1-216-093-00 1-216-069-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 560 68K 6.8K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	R104 R105 R106	1-216-061-00 1-216-025-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 100 4.7K	5% 5%	1/10W 1/10W 1/10W		R176 R177 R178 R179	1-216-065-00 1-216-073-00 1-216-089-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 10K 47K 22K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
	R107 R108	1-216-025-00 1-216-113-00	METAL GLAZE METAL GLAZE	100 470K	5% 5%	1/10W 1/10W		R180	1-216-679-11	METAL CHIP	TOF	0.50%	1/10W	
	R110 R111 R112 R113	1-216-049-00 1-216-063-00 1-216-049-00 1-246-401-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARRON	1K 3.9K 1K 47 680	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R181 R182 R183 R184 R185	1-216-071-00 1-216-683-11 1-216-691-11 1-216-699-11 1-216-073-00	METAL CHIP METAL CHIP METAL CHIP	22K 47K	0.50%	1/10W 1/10W	
•	R114 R115 R117 R118		METAL GLAZE	680 3.3K 10K 100	5% 5% 5%	1/10W 1/10W		R187 R188 R189	1-216-113-00 1-216-073-00 1-216-113-00 1-216-103-00 1-216-107-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 10K 470K 180K 270K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	R119 R120	1-216-647-11 1-216-647-11	METAL CHIP	680 680	0.50% 0.50%	1/10W 1/10W 1/10W		R191		METAL GLAZE METAL GLAZE			1/10W	
	R121 R122 R123 R124	1-216-025-00 1-216-083-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 27K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R194	1-216-103-00 1-216-105-00 1-216-089-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	180K 220K 47K 470K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
	R125	1-216-083-00	METAL GLAZE	27K		1/10W		R197	1-216-073-00 1-216-671-11 1-216-049-00	METAL GLAZE METAL CHIP METAL GLAZE	10K 6.8K 1K	5% 0.50%	1/10W 1/10W 1/10W	
	R126 R127 R128 R129	1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	68K 330 27K 5.6K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R199 R200	1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE	4.7K 4.7K	5% 5%	1/10W 1/10W	
	R130 R131 R132 R133	1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 47K 2.2K 18K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R202 R203 R204	1-216-043-00 1-216-033-00 1-216-045-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 220 680 10K 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	R134 R135	1-216-645-11	METAL CHIP METAL CHIP	560 560	0.50% 0.50%	1/10W		R206	1-216-043-00	METAL GLAZE	560	5%	1/10W	
	R136 R137 R138	1-216-045-00 1-216-657-11	METAL GLAZE METAL GLAZE METAL CHIP		5% 5% 0.50%			R208 R209	1-216-045-00 1-216-671-11 1-216-043-00 1-216-033-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE	680 6.8K 560 220	0.50% 5%	1/10W 1/10W 1/10W 1/10W	
	R139 R140		METAL CHIP	18K 1.2K	5% 0.50%	1/10W 1/10W			1-216-099-00 1-216-065-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE	120K 4.7K 560	5%	1/10W 1/10W 1/10W	



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R214 R215 R216 R217 R218	1-216-043-00 1-216-125-00 1-216-043-00 1-216-033-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 1.5M 560 220	5%	1/10W 1/10W 1/10W 1/10W 1/10W		R280 R281 R282 R283	1-216-061-00 1-216-061-00 1-216-037-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 3.3K 330 1K	5% 5%	1/10W 1/10W 1/10W 1/10W	
R219 R220 R221 R222 R223	1-216-043-00 1-216-043-00 1-216-035-00 1-216-033-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 560 270 220 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R284 R285 R286 R287 R288 R288 R289	1-216-057-00 1-216-037-00 1-216-061-00 1-216-061-00 1-216-037-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 330 3.3K 3.3K 330 1K	55% 55% 55%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
R224 R225 R226 R227 R228	1-216-073-00 1-216-095-00 1-216-073-00 1-216-035-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 82K 10K 270 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R290 R291 R292 R293 R295	1-216-057-00 1-216-037-00 1-216-061-00 1-216-061-00 1-216-057-00	METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE	2.2K 330 3.3K 3.3K	555 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R229 R230 R231 R232 R233	1-216-113-00 1-216-081-00 1-216-113-00 1-216-105-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 22K 470K 220K 10K	5%% 5555555555555555555555555555555555	1/10W 1/10W 1/10W 1/10W 1/10W		R296 R297 R298 R300 R301	1-216-659-11 1-216-659-11 1-216-065-00 1-216-065-00 1-216-065-00	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 4.7K	0.50% 0.50% 5% 5%	1/10W	
R234 R235 R236 R237 R238	1-216-041-00 1-216-041-00 1-216-077-00 1-216-025-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 470 15K 100 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	·····	R302 R303 R304 R305 R306	1-216-113-00 1-216-065-00 1-216-049-00 1-216-049-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 4.7K 1K 1K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R239 R240 R241 R242 R243	1-216-065-00 1-216-033-00 1-216-073-00 1-216-051-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 220 10K 1.2K 470K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R307 R308 R309 R310 R311	1-216-033-00 1-216-089-00 1-216-089-00 1-216-033-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 47K 47K 220 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R244 R245 R246 R247 R248	1-216-065-00 1-216-679-11 1-216-103-00 1-216-093-00 1-216-095-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 15K 180K 68K 82K	5% 0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R312 R313 R314 R315 R316	1-216-089-00 1-216-033-00 1-216-089-00 1-216-113-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 220 47K 470K 220K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R249 R250 R251 R252 R253	1-216-109-00 1-216-101-00 1-216-105-00 1-216-101-00 1-216-101-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330K 150K 220K 150K 150K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R317 R318 R319 R320 R321	1-216-109-00 1-216-105-00 1-216-099-00 1-216-099-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330K 220K 120K 120K 560	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R254 R255 R256 R258 R259	1-216-033-00 1-216-061-00 1-216-107-00 1-216-041-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 3.3K 270K 470 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R322 R323 R324 R325 R326	1-216-109-00 1-216-109-00 1-216-109-00 1-216-097-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330K 330K 330K 100K 470K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
R260 R261 R262 R263 R264	1-216-025-00 1-216-035-00 1-216-097-00 1-216-029-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 270 100K 150 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R328 R329 R330 R331 R332	1-216-073-00 1-216-107-00 1-216-105-00 1-216-025-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 270K 220K 100 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R265 R266 R267 R268 R269	1-216-067-00 1-216-073-00 1-216-073-00 1-216-081-00 1-216-101-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 10K 10K 22K 150K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R333 R334 R335 R336 R337	1-216-097-00 1-216-025-00 1-216-099-00 1-216-095-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 100 120K 82K 220K	5% 5%%%%% 55%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R270 R271 R272 R273 R275	1-216-081-00 1-216-025-00 1-216-101-00 1-216-113-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 100 150K 470K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R338 R339 R340 R341 R342	1-216-025-00 1-216-099-00 1-216-095-00 1-216-105-00 1-216-047-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 120K 82K 220K 820	5% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R276 R277 R278 R279	1-216-037-00 1-216-049-00 1-216-057-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330 1K 2.2K 330	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R343	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	



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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R344 R345 R346 R348	1-216-664-11 1-216-661-11 1-216-105-00 1-216-061-00	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE	2.7K 220K 3.3K	0.50% 1/10W 0.50% 1/10W 5% 1/10W 5% 1/10W		R1018	1-216-045-00 1-216-043-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	680 560 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R349 R350	1-216-650-11 1-216-653-11	METAL CHIP	910 1.2K	0.50% 1/10W 0.50% 1/10W			1-216-089-00 1-216-045-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 680 100	5% 5%	1/10W 1/10W 1/10W	
R351 R352 R353 R354	1-216-650-11 1-216-653-11 1-216-650-11 1-216-653-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP	910 1.2K	0.50% 1/10W 0.50% 1/10W 0.50% 1/10W 0.50% 1/10W 0.50% 1/10W		R1024 R1025	1-216-073-00 1-216-025-00 1-216-033-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 100 220 3.3K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R355 R356 R357 R358 R359	1-216-113-00 1-216-113-00 1-216-095-00 1-216-113-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 470K 82K 470K 22K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W			1-216-101-00 1-216-033-00 1-216-061-00 1-216-089-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150K 220 3.3K 47K 220	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R360 R363 R364	1-216-089-00 1-216-069-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 6.8K 10K 10K 82K	5% 1/10W 5% 1/10W		R1032	1-216-061-00	METAL GLAZE METAL GLAZE	3.3K 22K	5% 5% 5%	1/10W 1/10W	
R365 R366	1-216-073-00 1-216-073-00 1-216-244-00	METAL GLAZE METAL GLAZE	10K 10K 82K	5% 1/10W 5% 1/8W		R1035 R1036 R1038	1-216-081-00 1-216-073-00 1-216-089-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 47K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R367 R368 R369	1-216-244-00 1-216-055-00 1-216-248-00	METAL GLAZE METAL GLAZE METAL GLAZE	82K 1.8K 120K	フル 1/10W 59 1/RW		R1042	1-216-025-00	METAL GLAZE METAL GLAZE	100		1/10W 1/10W	
R370 R371	1-216-115-00 1-216-067-00	METAL GLAZE METAL GLAZE	560K 5.6K	5% 1/10W 5% 1/10W		R1044	1-216-057-00 1-216-061-00 1-216-125-00	METAL GLAZE METAL GLAZE METAL GLAZE	820 2.2K 3.3K 1.5M	5% 5% 5%	1/10W 1/10W 1/10W	
R372 R374 R375	1-216-115-00 1-216-115-00 1-216-683-11	METAL GLAZE METAL GLAZE METAL CHIP	560K 560K 22K	5% 1/10W 5% 1/10W 0.50% 1/10W 0.50% 1/10W 1/10W 0.50% 1/10W 0.50% 1/10W		R1046	1-216-689-11	METAL CHIP	39K	0.50% 5%	1/10W 1/10W	
R376 R378	1-216-663-11 1-216-025-00	METAL CHIP METAL GLAZE	3.3K 100	0.50% 1/10W 5% 1/10W		R1047 R1048 R1049 R1050	1-216-049-00 1-216-085-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 33K 2.7K	5% 5%	1/10W 1/10W 1/10W	
R379 R380 R381	1-216-641-11 1-216-668-11 1-216-089-00	METAL CHIP METAL CHIP METAL GLAZE	41 L	26 1/10W		R1050 R1051 R1053	1-216-105-00	METAL GLAZE METAL GLAZE	220K 56K	5% 5%	1/10W	
R382 R383	1-216-025-00 1-216-641-11	METAL GLAZE METAL CHIP	100 390	5% 1/10W 0.50% 1/10W		R1054 R1055 R1056	1-216-091-00 1-216-093-00 1-216-097-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE	330	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R384 R385 R386 R387	1-216-668-11 1-216-117-00 1-216-025-00 1-216-641-11	METAL CHIP METAL GLAZE METAL GLAZE METAL CHIP	100	5% 1/10W 5% 1/10W		R1057 R1058 R1059	1-216-109-00 1-216-109-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 330K 330K	59	1/10W 1/10W 1/10W	
R388 R390	1-216-668-11	METAL CHIP METAL GLAZE	220K	0.50% 1/10W 0.50% 1/10W 5% 1/10W		R1060 R1061 R1062	1-216-109-00 1-216-109-00 1-216-103-00	METAL GLAZE METAL GLAZE METAL GLAZE	330K 330K 330K 180K	5% 5% 5%	1/10W 1/10W 1/10W	
R391 R392 R393	1-216-081-00 1-216-113-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 470K 33K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		R1063 R1064	1-216-103-00 1-216-103-00	METAL GLAZE METAL GLAZE	180K 180K	5% 5% 5%	1/10W 1/10W	
R394 R397	1-216-113-00 1-249-437-11	METAL GLAZE CARBON	470K 47K		F	R1065 R1066 R1067	1-216-103-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	180K 10K 10K	5% 5% 5%	1/10W 1/10W 1/10W	
R398 R399 R1001	1-249-434-11 1-216-073-00 1-216-073-00	CARBON METAL GLAZE METAL GLAZE	27K 10K 10K	5% 1/4W 5% 1/4W 5% 1/10W 5% 1/10W 5% 1/10W		R1068 R1069	1-216-049-00 1-216-133-00	METAL GLAZE METAL GLAZE	1K 3.3M	5% 5%	1/10W 1/10W	
R1002 R1003	1-216-047-00	METAL GLAZE	820 1.8K			R1070 R1071 R1072	1-216-085-00 1-216-113-00 1-216-099-00	METAL GLAZE METAL GLAZE METAL GLAZE	33K 470K 120K	5% 5% 5%	1/10W 1/10W 1/10W	
R1004 R1005 R1006	1-216-061-00 1-216-047-00 1-216-055-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 820 1.8K 3.3K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		R1073 R1075	1-216-131-11 1-216-065-00	METAL GLAZE METAL GLAZE	2.7M 4.7K	5% 5%	1/10W 1/10W	
R1007 R1008	1-216-061-00 1-216-047-00	METAL GLAZE	820			R1076 R1077 R1079	1-216-101-00 1-216-103-00 1-216-131-11	METAL GLAZE METAL GLAZE METAL GLAZE	150K 180K 2.7M	5% 5% 5%	1/10W 1/10W 1/10W	
R1009 R1010 R1011 R1012	1-216-055-00 1-216-061-00 1-216-033-00 1-216-051-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 3.3K 220 1.2K	5% 1/104 5% 1/104 5% 1/104 5% 1/104 5% 1/104		R1080 R1081 R1082	1-216-097-00 1-216-097-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 100K 220K	5% 5%	1/10W 1/10W 1/10W	
R1013 R1014	1-216-051-00 1-216-246-00	METAL GLAZE METAL GLAZE	1.2K 100K	5% 1/10W 5% 1/8W		R1083 R1084	1-216-065-00 1-216-063-00	METAL GLAZE METAL GLAZE	4.7K 3.9K	5% 5% 5%	1/10W 1/10W	
R1015	1-216-033-00 1-216-089-00	METAL GLAZE METAL GLAZE	220 47K	5% 1/10k 5% 1/10k		R1086	1-216-073-00	METAL GLAZE	10K	5%	1/10W	



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R1088 R1090 R1091	1-216-121-00 1-216-047-00 1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1M 820 1K 1K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1328 R1329 R1330	1-216-099-00 1-216-099-00 1-216-093-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	120K 5% 120K 5% 68K 5% 3.9K 5% 1.2K 5% 2.2K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1094 R1095 R1096	1-216-121-00 1-216-075-00 1-216-075-00 1-216-075-00 1-216-699-11	METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 0.50%	1/10W 1/10W 1/10W		R1332 R1333 R1334 R1335	1-216-051-00 1-216-057-00 1-216-057-00 1-216-055-00 1-216-035-00 1-216-089-00	METAL GLAZE	2.2K 5% 2.2K 5% 1.8K 5% 270 5% 47K 5% 470K 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
R1207 R1208 R1220 R1221	1-218-754-11 1-216-061-00 1-216-065-00 1-216-055-00 1-216-055-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8%	5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1338 R1339 R1340 R1341	1-216-113-00 1-216-049-00 1-216-097-00 1-216-097-00 1-216-111-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 100K 5% 100K 5% 390K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1223 R1225 R1226 R1227	1-215-876-00	METAL OXIDE METAL OXIDE METAL OXIDE		5% 5% 5%	1W 1W 1W	F F	R1343 R1344 R1345 R1346	1-216-694-11 1-216-121-00 1-216-073-00 1-216-055-00 1-216-047-00	METAL CHIP  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE	62K 0.50 1M 5% 10K 5% 1.8K 5% 820 5%	7 1/10W 1/10W 1/10W 1/10W 1/10W	
	1-249-421-11 1-216-029-00 1-216-029-00	METAL GLAZE METAL GLAZE		5% 5% 5%	1/4W 1/4W 1/10W 1/10W	F	R1348 R1349 R1350 R1351	1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 10K 5% 10K 5% 10K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1234 R1235 R1236 R1237	1-216-029-00 1-216-029-00 1-249-419-11		150 150 150 150 1.5K		1/10W 1/10W 1/10W 1/10W 1/4W	F	R1352 R1353 R1371 R1372 R1373	1-216-073-00 1-216-115-00 1-216-057-00 1-216-057-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 560K 5% 2.2K 5% 2.2K 5% 2.2K 5% 47K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1239 R1270 R1271	1-249-419-11 1-249-419-11 1-216-079-00 1-216-057-00 1-216-109-00	CARBON METAL GLAZE		5% 5% 5% 5%	1/4W 1/4W 1/10W 1/10W	r F	R1393	1-216-089-00 1-216-095-00	METAL GLAZE  METAL GLAZE  IABLE RESISTOR	82K 5%	1/10W 1/10W	
R1291 R1294 R1295	1-216-071-00 1-216-081-00 1-216-069-00 1-216-109-00 1-216-095-00	METAL GLAZE	8.2K 22K 6.8K 330K 82K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV102 RV103 RV104	1-241-763-11 1-241-763-11 1-238-009-11 1-238-009-11 1-238-012-11	RES, ADJ, CER RES, ADJ, CER RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	MET 4.7K MET 4.7K BBON 220 BBON 220		
	1-216-071-00 1-216-071-00 1-216-071-00 1-216-089-00 1-216-065-00		8.2K 8.2K 8.2K 47K 4.7K	5% 55% 55% 55%	1/10W 1/10W 1/10W 1/10W 1/10W		RV106 RV107 RV108 RV109 RV110	1-238-012-11 1-238-012-11 1-238-016-11 1-241-703-11 1-238-016-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CER RES, ADJ, CAR	RBON 1K RBON 1K RBON 1OK RMET 22K		
R1302 R1303 R1304 R1305 R1306	1-216-113-00 1-216-113-00 1-216-091-00 1-216-093-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 470K 56K 68K 3.9K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV111 RV112 RV113 RV114 RV115	1-238-016-11 1-238-019-11 1-238-019-11 1-238-019-11 1-238-017-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	RBON 10K RBON 47K RBON 47K RBON 47K		
R1310	1-216-041-00 1-216-041-00 1-216-063-00 1-216-119-00 1-216-101-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 470 3.9K 820K 150K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV116 RV118 RV119 RV120 RV121	1-238-017-11 1-238-017-11 1-238-017-11 1-238-017-11 1-238-017-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	RBON 22K BON 22K BON 22K BON 22K		
R1320 R1321	1-216-053-00 1-216-077-00 1-216-083-00 1-216-093-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 15K 27K 68K 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV122 RV123 RV124 RV125 RV205	1-238-017-11 1-238-013-11 1-238-012-11 1-238-012-11 1-238-017-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	BON 22K BON 2.2K BON 1K BON 1K		
	1-216-057-00 1-216-121-00 1-216-085-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 1M 33K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W							



The components identified by shading and mark  $\Delta$  are critical for safety.
Replace only with part number specified.

REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
<mod< td=""><td>DULE&gt;</td><td></td><td></td><td>† † †</td><td></td><td></td><td></td><td></td></mod<>	DULE>			† † †				
SEP101 1-808-654-11	MODULE			} 	<neo< td=""><td>N LAMP&gt;</td><td></td><td></td></neo<>	N LAMP>		
<cry< td=""><td>STAL&gt;</td><td></td><td></td><td>NL801</td><td>1-519-108-XX</td><td>LAMP, NEON</td><td></td><td></td></cry<>	STAL>			NL801	1-519-108-XX	LAMP, NEON		
X101 1-527-722-00 X102 1-577-259-11	OSCILLATOR, CRYSTAL VIBRATOR, CRYSTAL			1		NSISTOR>		
	*******	******	******	Q801 Q802	8-729-195-82 8-729-201-62 *4-363-404-00	TRANSISTOR 2SC2958 TRANSISTOR 2SC2555 HOLDER, IC; Q802		
*A-1195-048-A	P BOARD, COMPLETE				4-382-854-01		+); Q802	
<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td>Q803</td><td>8-729-906-24</td><td>TRANSISTOR 2SD835</td><td></td><td></td></cap<>	ACITOR>			Q803	8-729-906-24	TRANSISTOR 2SD835		
C801 1-126-104-11	ELECT 470MF	20%	35V	1	<res< td=""><td>ISTOR&gt;</td><td></td><td></td></res<>	ISTOR>		
C802 1-162-318-11 C803 1-102-228-00 C804 1-123-935-00 C805 1-101-004-00	CERAMIC 0.001MF CERAMIC 470PF ELECT 33MF CERAMIC 0.01MF	10% 10% 20%	500V 500V 160V 50V	R801 R802 R803 R804	1-249-383-11 1-249-377-11 1-216-049-00 1-249-419-11	CARBON 1.5 55 CARBON 0.47 55 METAL GLAZE 1K 55 CARBON 1.5K 55	% 1/4W % 1/10W	F
C806 1-124-480-11 C807 1-102-228-00	ELECT 470MF CERAMIC 470PF	20% 10%	25V 500V	R805	1-215-892-11	METAL OXIDE 1K 5	% 2W	F
C808 1-106-367-00 C809 1-106-375-12 C810 1-162-318-11	MYLAR 0.01MF MYLAR 0.022MF CERAMIC 0.001MF	10% 10% 10%	100V 100V 500V	R807 R808 R809	1-216-425-11 1-202-846-00 1-216-089-00	SOLID 470K 20 METAL GLAZE 47K 5	0% 1/2W % 1/10W	
C811 ▲ 1-137-544-11	FILM 0.01MF FILM 0.013MF	3%	600V	R810 R811	1-249-421-11 1-216-049-00	CARBON 2.2K 55 METAL GLAZE 1K 55	1/4W 1/10W	F
C812 A 1-137-545-11 C813 1-106-385-00 C814 1-106-383-00 C815 1-126-233-11	FILM 0.013MF MYLAR 0.056MF MYLAR 0.047MF ELECT 22MF	3% 5% 10% 20%	600V 200V 100V 50V	R812 R813 R814	1-249-439-11 1-249-414-11 1-249-377-11	CARBON 68K 55 CARBON 560 55 CARBON 0.47 55	1/4W 1/4W 1/4W	F F
C816 1-124-798-11 C817 1-130-800-00 C818 1-102-228-00	ELECT 1MF FILM 2.2MF CERAMIC 470PF	20% 10%	160V 250V	i    -  -  -	<var< td=""><td>IABLE RESISTOR&gt;</td><td></td><td></td></var<>	IABLE RESISTOR>		
C819 1-162-116-00 C820 1-162-116-00	CERAMIC 680PF CERAMIC 680PF	10% 10% 10%	500V 2KV 2KV	RV801	1-223-102-00	RES, ADJ, WIREWOUND 12	20	
<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td>i    -  -  -  </td><td><tra< td=""><td>NSFORMER&gt;</td><td></td><td></td></tra<></td></con<>	NECTOR>			i    -  -  - 	<tra< td=""><td>NSFORMER&gt;</td><td></td><td></td></tra<>	NSFORMER>		
CN801 *1-564-595-11	PLUG, CONNECTOR 14P	1011) AD			1-437-082-31 1-439-526-11	HDT TRANSFORMER ASSY, FLYI	BACK	
CN803 *1-564-508-11	PIN, CONNECTOR (5MM PIT PLUG, CONNECTOR 5P PLUG, CONNECTOR (2.5MM)					********	********	*******
<dio< td=""><td></td><td></td><td></td><td>:</td><td>*1-641-723-11</td><td>FA BUARD</td><td></td><td></td></dio<>				:	*1-641-723-11	FA BUARD		
D801 8-719-300-33	DIODE RU-3AM				1-533-223-11 *4-341-751-01	EYELET EY6, EY7	70 EVO	
	DIODE RU-3AM DIODE RU-3AM DIODE EGP-2OG			: !	*4-341-752-01	EYELET EY1, EY3, E	18, E19	
D805 8-719-300-33	DIODE RU-3AM			ראבח1 .		NECTOR> PIN, CONNECTOR (PC BO)	מג (ממו	
D807 8-719-105-XX D808 8-719-008-28	DIODE RD6.2M-B1 THYRISTOR CRO2AM-4TB			CN602 :	*1-508-765 <b>-</b> 00	PIN, CONNECTOR (5MM P. PLUG, CONNECTOR 4P	TCH) 3P	
D809 8-719-911-55 D810 8-719-911-55	DIODE U05G DIODE U05G				<fus< td=""><td>E&gt;</td><td></td><td></td></fus<>	E>		
D811 8-719-911-55 D813 8-719-300-33				F601 <u>∧</u>	, 1-576-230-11	FUSE (H.B.C.) (3.15A/2	250V)	
<001	L>				<res< td=""><td>ISTOR&gt;</td><td></td><td></td></res<>	ISTOR>		
L802 1-459-442-00 L803 1-422-613-11	COIL (WITH CORE) COIL, AIR CORE			R602	1-202-721-00	SOLID 1.5M 20	0% 1/2W	
L804 1-459-109-00 L805 <u>A</u> 1-460-225-11	COIL, DUST CORE COIL, HORIZONTAL LINEAR	ITY			<swi< td=""><td>TCH&gt;</td><td></td><td></td></swi<>	TCH>		
L806 1-407-500-00 L807 1-407-500-00	INDUCTOR 4.7MMH INDUCTOR 4.7MMH			\$601	₾ 1-692-050-1	1 SWITCH, PUSH (AC POW	ER) (1KEY)	
				****	**********	********	*******	*******

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.



REF.NO. PA	ART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
		QA BOARD, COM	****			C453 C454 C460	1-124-234-00 1-128-499-11 1-126-301-11	ELECT	220MF	20% 20% 20%	16V 16V 50V
1- 1- *4-	341-752-01	TERMINAL BOARI TERMINAL BOARI EYELET EYI ACITOR>	O, IN/OUT O, IN/OUT O, EY11	(LINE B) (LINE A)&	AC INLET	C461 C462 C464 C465 C466	1-163-031-11	ELECT ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.01MF	20% 20%	50V 50V 50V 50V 50V
C401 1-	124-234-00		22MF		16V	C467		CERAMIC CHIP			
C403 1- C404 1-	124-234-00 124-234-00 124-234-00	ELECT ELECT	22MF 22MF 22MF	20% 20% 20%	16V 16V 16V		<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td></con<>	NECTOR>			
C405 1-	124-234-00		22MF 22MF	20%	16V	CN401	1-506-494-11	PIN, CONNECTO	)R 15P	,	
C407 1- C408 1- C409 1-	124-234-00 124-234-00 124-463-00 124-234-00 124-234-00	ELECT ELECT ELECT	22MF 0.1MF 22MF 22MF	20% 20% 20% 20% 20%	16V 16V 50V 16V 16V	CN403 CN404	*1-564-518-11 *1-580-690-11 *1-564-519-11	PIN, CONNECTO PLUG, CONNECT	PR (PC BOARD) OR 4P	4P	
C411 1-	124-234-00	ELECT	22MF	20% 20% 20%	16V		<dio< td=""><td></td><td></td><td></td><td></td></dio<>				
C412 1- C413 1- C414 1- C415 1-	124-234-00 124-234-00 126-157-11 126-157-11	ELECT ELECT ELECT ELECT	22MF 22MF 10MF 10MF	20% 20% 20%	16V 16V 16V 16V	D401 D402 D403 D404 D405	8-719-404-46 8-719-404-46 8-719-110-09 8-719-404-46 8-719-404-46	DIODE MA110 DIODE RD8.2ES DIODE MA110	3-B3		
C417 1- C418 1-	126-157-11 126-157-11 126-157-11 126-157-11	ELECT ELECT	10MF 10MF 10MF 10MF	20% 20% 20% 20%	16V 16V 16V 16V	D406 D407 D408		DIODE MA110 DIODE MA110 DIODE MA110			
C420 1-	126-157-11	ELECT	10MF	20%	16V	D409 D410	8-719-404-46 8-719-404-46	DIODE MA110			
C422 1- C423 1- C424 1-	102-125-00 124-464-11 126-157-11 126-157-11 108-634-11	ELECT	0.0047MF 0.22MF 10MF 10MF 0.047MF	10% 20% 20% 20% 10%	50V 50V 16V 16V 100V	D411 D412 D413 D414 D415	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110			
C427 1- C428 1- C429 1-	128-499-11 128-499-11 124-589-11 124-234-00 163-033-00	ELECT	220MF 220MF 47MF 22MF 0.022MF	20% 20% 20% 20%	16V 16V 16V 16V 50V	D416 D417 D418 D419 D420	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110			
C432 1- C433 1- C434 1-	124-234-00	CERAMIC CHIP	0.022MF 22MF	20% 20% 20%	16V 50V 16V 50V 16V	!	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110			
C437 1- C438 1- C439 1-	·163-033-00 ·124-234-00	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP	0.022MF 22MF 0.022MF	20%	50V 50V 16V 50V 50V	D426 D427 D428 D429 D430	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110			
C442 1- C443 1- C444 1-	124-234-00 163-033-00 163-033-00 163-031-11	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.022MF 0.022MF	20%	16V 50V 50V 50V 50V	D431	8-719-404-46 <1C>	DIODE MA110			
C447 1- C448 1- C449 1-	-163-031-11 -126-301-11 -124-234-00 -163-031-11 -124-234-00	CERAMIC CHIP ELECT ELECT CERAMIC CHIP ELECT	1MF 22MF	20% 20% 20%	50V 50V 16V 50V 16V	IC401 IC402 IC403	8-759-501-21 8-759-501-21 8-759-420-04	IC MM1149XF IC AN5265			
	-163-033-00 -128-499-11	CERAMIC CHIP ELECT	0.022MF 220MF	20%	50V 16V	L401 L402	1-410-682-31 1-410-682-31	INDUCTOR	470UH 470UH		

## QA

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
Q401		NSISTOR>				R438 R439 R440	1-216-091-00 1-216-063-00	METAL GLAZE	56K 3.9K 120	5% 1/10 5% 1/10 5% 1/10	O <b>W</b>
Q402 Q403 Q404 Q405	8-729-920-74 8-729-216-22 8-729-920-74 8-729-920-74	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SC2412K- SC2412K- SA1162-G SC2412K- SC2412K-	QR QR QR		R441 R442 R443 R444	1-216-087-11 1-214-702-00	METAL GLAZE METAL GLAZE METAL	47K 1K 39K 75 1K	5% 1/10 5% 1/10 5% 1/10 1% 1/40 5% 1/10	OW OW W
Q406 Q407 Q408 Q409 Q410	8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 25	SC2412K- SC2412K- SC2412K- SC2412K- SC2412K-	QR QR QR QR QR		R446 R447 R448 R449	1-216-093-00 1-216-091-00 1-216-063-00 1-216-027-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	68K 56K 3.9K 120 75		OM OM OM
Q411 Q412 Q413 Q414 Q416	8-729-216-22 8-729-216-22 8-729-216-22 8-729-216-22 8-729-145-18	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SA1162-G SA1162-G SA1162-G SA1162-G SC3736			R450 R451 R452 R453 R454	1-214-702-00 1-216-049-00 1-216-091-00 1-216-093-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 1K 56K 68K 3.9K 330		OM OM OM
Q417 Q418 Q419 Q420 Q421	8-729-216-22 8-729-216-22 8-729-216-22 8-729-145-18 8-729-901-06 8-729-901-06 8-729-901-01 8-729-901-06 8-729-901-06 8-729-901-06 8-729-901-06 8-729-901-06	TRANSISTOR DT TRANSISTOR DT TRANSISTOR DT TRANSISTOR DT TRANSISTOR DT	FA144EK FA144EK FA144EK FC144EK FA144EK			R455 R456 R457 R458 R459	1-216-037-00 1-216-085-00 1-216-085-00 1-247-707-11 1-216-087-11	METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE	33K 33K	5% 1/10 5% 1/10 5% 1/10 5% 1/40 5% 1/10	ow Ow Ow
Q422 Q423 Q424	8-729-901-01 8-729-901-06	TRANSISTOR DI	CC144EK			R460 R461	1-216-089-00 1-216-097-00	METAL GLAZE METAL GLAZE			OW .
<b>Ų</b> 424	8-729-901-06 <res< td=""><td>ISTOR&gt;</td><td>1 A 1 4 4 C K</td><td></td><td></td><td>R462 R463 R464 R465</td><td>1-216-115-00 1-216-105-00 1-216-077-00 1-216-025-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE</td><td>100K 560K 220K 15K 100</td><td>5% 1/10 5% 1/10 5% 1/10 5% 1/10</td><td>)W )W</td></res<>	ISTOR>	1 A 1 4 4 C K			R462 R463 R464 R465	1-216-115-00 1-216-105-00 1-216-077-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 560K 220K 15K 100	5% 1/10 5% 1/10 5% 1/10 5% 1/10	)W )W
R401 R402 R403 R404 R405	1-214-702-00 1-216-049-00 1-216-093-00 1-216-091-00 1-216-063-00	METAL GLAZE	75 1K 68K 56K 3.9K	1% 1/4W 5% 1/10 5% 1/10 5% 1/10 5% 1/10	취 취 취	R466 R467 R468 R469 R470	1-216-097-00 1-216-115-00 1-216-105-00 1-216-077-00 1-216-025-00	METAL GLAZE	100K 560K 220K 15K 100	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	)₩ )₩
R406 R407 R408 R409 R410	1-216-087-11 1-216-085-00 1-214-702-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL METAL GLAZE		5% 1/10 5% 1/10 5% 1/10 1% 1/4W 5% 1/10	M M	R471 R472 R473	1-216-097-00 1-216-115-00 1-216-105-00 1-216-077-00 1-216-025-00	METAL GLAZE METAL GLAZE	100K 560K 220K 15K 100	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	)₩ )₩
R411 R412 R413 R414 R415	1-216-091-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	68K 56K 3.9K 330 3.3K	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	M M M	R477 R479 R480 R481 R482	1-216-081-00 1-216-085-00 1-247-711-11 1-247-720-11 1-249-455-11	CARBON	22K 33K 680 3.9K 4.7	5% 1/10 5% 1/10 5% 1/40 5% 1/40 5% 1/40	∱ ↑ )₩
R416 R417 R418 R419 R420	1-216-023-00 1-216-049-00 1-216-093-00 1-216-091-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82 1K 68K 56K 3.9K	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	되 당 : : : : : : : : : : : : : : : : : : :	R483 R484 R485 R486 R487	1-249-389-11 1-216-041-00 1-247-688-11 1-216-037-00 1-249-468-11	CARBON METAL GLAZE CARBON METAL GLAZE CARBON	10	5% 1/40 5% 1/10 5% 1/40 5% 1/10 5% 1/40	OM N E DM
R421 R422 R423 R424 R425	1-216-027-00 1-214-702-00 1-214-702-00 1-216-049-00 1-216-093-00	METAL GLAZE METAL METAL METAL GLAZE METAL GLAZE	75 75	5% 1/10 1% 1/4W 1% 1/4W 5% 1/10 5% 1/10	W	R488 R489 R490 R491 R492	1-249-468-11 1-249-468-11 1-216-057-00 1-216-089-00 1-216-089-00	CARBON CARBON METAL GLAZE METAL GLAZE METAL GLAZE	82K 82K 2.2K 47K 47K	5% 1/4V 5% 1/4V 5% 1/10 5% 1/10	)M )M 1
R426 R427 R428 R429 R430	1-216-091-00 1-216-063-00 1-216-037-00 1-214-702-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL METAL GLAZE	75	5% 1/10 5% 1/10 5% 1/10 1% 1/4W 5% 1/10	r H	R493 R494 R495 R496 R497	1-216-089-00 1-216-089-00 1-216-295-00 1-216-057-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K !	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	DA DA DA
R431 R432 R433 R434 R435	1-216-027-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL	56K 5	5% 1/10 5% 1/10 5% 1/10 5% 1/10 1% 1/4W	# #	R498 R499 R1401 R1403 R1404	1-216-089-00 1-216-089-00 1-216-097-00 1-216-295-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	om om om
R436 R437		METAL GLAZE METAL GLAZE	1K 68K	5% 1/10 5% 1/10	N N						

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<i>'</i>	REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK	
}		RIABLE RESISTOR>			C512 C513 C514 C515	1-106-375-12 1-106-375-12 1-106-371-00 1-124-925-11	MYLAR	0.022MF 0.022MF 0.015MF 2.2MF	10% 10% 10% 20%	100V 100V 100V 50V	
,	*1-64 <u>1</u> -720-11	*****	*****	******		1-124-925-11 1-130-480-00 1-163-245-11 1-124-927-11 1-163-129-00			20% 5% 5% 20% 5%	50V 50V 50V 50V 50V	
	*	SOCKET, PICTURE TUBE  ACITOR> CERAMIC 0.0047MF	10%	2KV	C521 C523 C524 C525 C526	1-124-907-11 1-106-363-00 1-102-116-00 1-102-820-00 1-102-973-00	ELECT MYLAR CERAMIC CERAMIC	10MF 0.0068MF 680PF 330PF 100PF	20% 10% 10% 5% 5%	50V 100V 50V 50V 50V	
	C702 1-102-050-00 C710 1-161-830-00	CERAMIC O.O1MF	99% 99%	500V 500V	C527 C528	1-124-122-11 1-102-125-00 1-124-910-11 1-163-097-00 1-131-370-00	ELECT CERAMIC	100MF 0.0047MF	20% 10% 20% 5% 10%	50V 50V 50V 50V	
	CN701 *1-564-509-11 CN702 *1-508-784-00 CN703 *1-564-508-11		) 1P	·		1-131-570-00 1-124-557-11 1-124-927-11 1-124-768-11 1-136-161-00 1-124-927-11			20% 20% 20% 5% 20%	25V 50V 50V 50V 50V	
	L701 1-410-668-11	INDUCTOR 27UH			C537 C538 C530	1-124-484-11 1-124-910-11 1-136-113-00 1-163-017-00 1-163-035-00	ELECT ELECT FILM CERAMIC CHIP	220MF 47MF 2MF 0.0047MF	20% 20% 20% 5% 10%	35V 50V 200V 50V 50V	
	R701 1-202-822-00 R702 1-202-822-00 R703 1-202-822-00 R704 1-202-838-00 R705 1-202-719-00	SOLID         2.2K         20%           SOLID         2.2K         20%           SOLID         100K         20%	1/2W 1/2W 1/2W 1/2W 1/2W		C542 C545 C546 C547 C548	1-126-103-11 1-126-101-11 1-124-907-11 1-124-907-11	ELECT ELECT ELECT		20% 20% 20% 20% 20%	16V 16V 50V 50V 50V	
	R706 1-202-842-11 <var 1-230-164-00<="" rv701="" td=""><td>SOLID 220K 20%  IABLE RESISTOR&gt;  RES, ADJ, METAL GLAZE 55M COVER (REAR LID), CV VOL; COVER (MAIN) CV VOL; RYZ</td><td>1/2W</td><td>ļ</td><td>C549</td><td>1-124-907-11 1-124-907-11 1-124-927-11 1-101-004-00</td><td>ELECT</td><td>10MF 10MF 4.7MF 0.01MF</td><td>20% 20% 20% 20%</td><td>50V 50V 50V 50V 16V</td><td></td></var>	SOLID 220K 20%  IABLE RESISTOR>  RES, ADJ, METAL GLAZE 55M COVER (REAR LID), CV VOL; COVER (MAIN) CV VOL; RYZ	1/2W	ļ	C549	1-124-907-11 1-124-907-11 1-124-927-11 1-101-004-00	ELECT	10MF 10MF 4.7MF 0.01MF	20% 20% 20% 20%	50V 50V 50V 50V 16V	
	************	COVÊR (REAR LID), CV VOL; COVER (MAIN), CV VOL; RV70 ************************************	01	********	C564	1-106-383-00 1-163-009-11 1-124-907-11 1-130-736-11 1-130-471-00	MYLAR CERAMIC CHIP ELECT FILM	0.047MF	10% 10% 20% 5%	100V 50V 50V 50V 50V	
	1-533-189-11 3-710-578-01 *3-738-015-01 4-382-854-01	HOLDER, FUSE COVER, VOLUME, 6 MOLD COVER, (DIA. 6) CARBON VR SCREW (M3X8), P, SW (+)			C570 C571 C572 C574 C575	1-163-117-00 1-124-913-11 1-101-004-00 1-106-351-00	CERAMIC CHIP ELECT CERAMIC MYLAR MYLAR		5% 20% 10% 10%	50V 50V 50V 100V 100V	
	C501 1-124-477-11	SCREW (M3X10), P, SW (+) ACITOR> ELECT 47MF	20%	16V	C831 C832 C833 C834 C835	1-124-907-11 1-124-907-11 1-163-009-11 1-163-121-00 1-163-209-00	ELECT ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	150PF	20% 20% 10% 5%	50V 50V 50V 50V 50V	
	C502 1-124-907-11 C503 1-126-103-11 C504 1-124-902-00 C505 1-106-381-12 C506 1-124-903-11	ELECT 470MF ELECT 0.47MF MYLAR 0.039MF BLECT 1MF	20% 20% 20% 10% 20%	50V 16V 50V 100V	C836 C837 C838 C839 C840	1-163-209-00 1-136-163-00 1-106-351-00	ELECT CERAMIC CHIP FILM MYLAR CERAMIC CHIP	0.068MF 0.0022MF	20% 5% 5% 10% 5%	50V 50V 50V 100V 50V	
	C507 1-106-367-00 C508 1-124-903-11 C509 1-136-173-00 C510 1-136-161-00 C511 1-124-903-11	ELECT 1MF FILM 0.47MF FILM 0.047MF	10% 20% 5% 5% 20%	100V 50V 50V 50V	C841 C843 C844 C845 C846	1-124-902-00 1-124-902-00	CERAMIC CHIP ELECT ELECT ELECT ELECT	0.0015MF 0.47MF 0.47MF 47MF 10MF	5% 20% 20% 20% 20% 20%	50V 50V 50V 25V 50V	



The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C847 C848 C849 C1601 C1602	1-126-233-11 1-131-351-00 1-164-182-11 1-124-907-11 1-164-161-11	TANTALUM 4.7MF CERAMIC CHIP 0.0033MF ELECT 10MF	20% 10% 10% 20% 10%	50V 35V 50V 50V 50V	D1612 D1613 D1614	8-729-101-31 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110	
C1605 C1606	1-124-903-11 1-128-500-51 1-124-922-11 1-102-074-00 1-124-907-11	ELECT 1MF ELECT 1000MF ELECT 1000MF CERAMIC 0.001MF ELECT 10MF	20% 20% 20% 10% 20%	50V 50V 50V 50V 50V	D1616 D1617 D1618 D1621		DIODE MA110 DIODE MA110 DIODE DTZ15B DIODE DTZ15B DIODE DTZ15B	
C1611	1-126-233-11 1-163-009-11 1-124-927-11 1-124-482-11 1-136-257-00	ELECT 22MF CERAMIC CHIP 0.001MF ELECT 4.7MF ELECT 33MF FILM 0.0039MF	20% 10% 20% 20% 5%	50V 50V 50V 35V 50V	D1626 D1627 D1628	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110	
C1615 C1620	1-163-009-11 1-164-232-11 1-124-465-00 1-163-133-00 1-163-117-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01MF ELECT 0.47MF CERAMIC CHIP 470PF CERAMIC CHIP 100PF	10% 10% 20% 5%	50V 50V 50V 50V 50V	F16012			25A/125V)
	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td></con<>	NECTOR>						
CN502 CN504 CN505	1-506-477-11 *1-564-507-11 *1-564-509-11	PLUG, CONNECTOR 3P PIN, CONNECTOR 12P PLUG, CONNECTOR 4P PLUG, CONNECTOR 6P PLUG, CONNECTOR 8P			IC501 IC502 IC503 IC504		IC CX23025	
CN508 CN509	*1-564-104-00 *1-564-506-11	PIN, CONNECTOR (B3P-VH) PLUG, CONNECTOR 3P	3P		I C505	8-759-009-51	IC MC14538BF	
	<dio< td=""><td></td><td></td><td></td><td></td><td>8-759-509-29 8-759-509-37 8-759-009-51 8-759-509-91</td><td>IC XRU4070BF IC MC14538BF</td><td></td></dio<>					8-759-509-29 8-759-509-37 8-759-009-51 8-759-509-91	IC XRU4070BF IC MC14538BF	
D501 D502 D503 D504	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46				; ! ! ! !	<001	L>	
D505 D506 D507 D508	8-719-404-46 8-719-911-55 8-719-404-46 8-719-404-46	DIODE MA110 DIODE U05G DIODE MA110 DIODE MA110			L501 L502 L503 L506 L1601	1-410-093-11 1-410-665-31 1-424-625-11 1-412-530-31 1-459-155-00	INDUCTOR 33MMH INDUCTOR 15UH COIL, CHOKE (PMC) 381.4UH INDUCTOR 27UH COIL (WITH CORE) 45UH	
D509 D510	8-719-404-46					1-424-626-12 1-410-397-21		
D511 D512 D514	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110			1 	<tra< td=""><td>NSISTOR&gt;</td><td></td></tra<>	NSISTOR>	
D831 D832 D833 D834 D835	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-109-89	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE RD5.6ES-B2			Q501 Q502 Q503 Q504 Q505	8-729-901-01 8-729-901-06 8-729-901-01	TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTA144EK TRANSISTOR DTC144EK TRANSISTOR ZSC2412K-QR	
D836 D837 D838 D1601	8-719-404-46 8-719-404-46 8-719-105-XX 8-719-404-46	DIODE MAIIO DIODE MAIIO DIODE RD5.6ES-B2 DIODE DTZ24B DIODE MAIIO  DIODE MAIIO DIODE MAIIO DIODE RD6.2M-B1 DIODE MAIIO DIODE DTZ20B DIODE MAIIO			Q506 Q507 Q508 Q509 Q510	8-729-901-01 8-729-920-74 8-729-920-74	TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR DTA144EK	
D1603 D1604	8-719-977-61 8-719-404-46	DIODE DTZ20B DIODE MA110			Q511 Q512	8-729-901-01 8-729-920-74	TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR	
D1605 D1606 D1607 D1608	8-719-404-46 8-719-981-00 8-719-981-00 8-719-977-02	DIODE MAI10 DIODE MAI10 DIODE ERC81-004 DIODE ERC81-004 DIODE DTZ5.6A DIODE DTZ15B			Q513 Q514 Q515 Q516	8-729-216-22 8-729-313-42	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SD1134-C TRANSISTOR DTC144EK	
D1610	8-719-977-49 8-719-404-46	DIODE MA110			0517 0518 0519 0525	8-729-901-01 8-729-920-74 8-729-920-74	TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR	

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REF.NO.	PART NO.					REMARK	REF. NO.	PART NO.	DESCRIPTION			R -	EMARK
Q532 Q533 Q833 Q834 Q835	8-729-920-74 8-729-920-74 8-729-216-22 8-729-920-74 8-729-920-74	TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SO	2412K-0 2412K-0 11162-G 2412K-0	QR QR QR QR			R537 R538 R539	1-215-867-00 1-216-095-00 1-216-095-00 1-216-101-00		470 82K 82K 150K	5% 5%	1W F 1/10W 1/10W	
Q836 Q1601 Q1602 Q1603	8-729-309-08 8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SO	:1890A :2412K-( :2412K-( :2412K-(	QR QR QR			R541 R542 R543 R544	1-216-063-00 1-216-075-00 1-216-065-00 1-216-101-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 12K 4.7K 150K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
Q1605 Q1606 Q1607	8-729-216-22 8-729-119-80 8-729-133-42 8-729-920-74 8-729-920-74	TRANSISTOR 2SA TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SO	1162-G 2688-LI 2334-L 2412K-G	K QR			R545 R546 R547 R548 R549	1-216-041-00 1-216-091-00 1-216-121-00 1-216-107-00 1-216-101-00	METAL GLAZE METAL GLAZE	470 56K 1M 270K 150K		1/10W 1/10W 1/10W 1/10W 1/10W	
Q1609 Q1610 Q1611 Q1612	8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR 2SO	2412K-0 2412K-0 2412K-0 2412K-0	QR QR QR QR			R550 R552 R553 R554 R555	1-216-356-00 1-216-061-00 1-216-087-11 1-216-073-00 1-216-077-00	METAL GLAZE METAL GLAZE	3.9 3.3K 39K 10K 15K	5% 5% 5% 5%	1W F 1/10W 1/10W 1/10W 1/10W	
Q1614 Q1615 Q1616 Q1617	8-729-920-74 8-729-920-74 8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR 2SO TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SA	2412K-0 2412K-0 11162-G 11162-G	QR			R557 R558 R559 R560 R561	1-216-057-00 1-216-049-00 1-216-065-00 1-216-037-00 1-216-081-00	METAL GLAZE METAL GLAZE	2.2K 1K 4.7K 330 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q1618 JR510	8-729-216-22 <res 1-216-295-00</res 	TRANSISTOR 2SA ISTOR> METAL GLAZE	11162-G	5%	1/10W		R562 R563 R564 R565 R566	1-216-053-00 1-216-061-00 1-249-415-11 1-216-059-00 1-216-025-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W 1/4W F 1/10W 1/10W	
R501 R502 R503 R504	1-216-089-00 1-216-089-00 1-249-437-11 1-216-073-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE	47K 47K 47K 10K	5% 5% 5% 5%	1/10W 1/10W 1/4W F 1/10W	7	R567 R568 R569 R570	1-216-095-00 1-216-063-00 1-216-063-00 1-216-093-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82K 3.9K 3.9K 68K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R506 R507 R508 R509	1-216-071-00 1-216-059-00 1-216-085-00 1-216-687-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	8.2K 2.7K 33K 33K	5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W		R572 R573 R574 R575	1-216-095-00 1-216-063-00 1-216-063-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82K 3.9K 3.9K 220K 330K	5% 5%	1/10W 1/10W 1/10W 1/10W	
R510 R511 R512 R513 R514	1-216-683-11 1-216-675-11 1-218-761-11 1-216-065-00 1-218-754-11	ISTOR>  METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	10K 240K 4.7K 120K	0.50% 0.50% 0.50% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W		R576 R577 R578 R579 R591	1-216-109-00 1-216-105-00 1-249-457-11 1-249-457-11 1-216-063-00	METAL GLAZE  METAL GLAZE  CARBON  CARBON  METAL GLAZE	220K	5%	1/10W 1/10W 1/4W F 1/4W F 1/10W	
R515 R516 R517 R518 R519	1-216-081-00 1-216-073-00 1-216-107-00 1-249-422-11 1-216-085-00	METAL GLAZE METAL GLAZE METAL CHIP CARBON METAL GLAZE	10K	5% 0.50% 5%	1/1UW		R592 R831 R832 R833 R834	1-216-033-00 1-216-049-00 1-216-075-00 1-216-065-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 1K 12K 4.7K 2.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R520 R521 R522 R523 R524	1-216-677-11 1-216-067-00 1-216-107-00 1-216-081-00 1-216-049-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	12K 5.6K 270K 22K 1K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R835 R836 R837 R838	1-216-081-00 1-216-049-00 1-216-075-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 1K 12K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R525 R526 R527 R528 R529	1-216-434-11 1-216-079-00 1-249-437-11 1-216-073-00 1-216-073-00	METAL OXIDE METAL GLAZE CARBON METAL GLAZE METAL GLAZE	1.8K 18K 47K 10K 10K	5% 5% 5%	1W 1 1/10W 1/4W 1 1/10W 1/10W	7	R839 R840 R841 R842 R843	1-216-061-00 1-216-097-00 1-216-093-00 1-216-093-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 100K 68K 68K 4.7K	55 555555555555555555555555555555555555	1/10W 1/10W 1/10W 1/10W 1/10W	
R530 R531 R532 R533 R534	1-216-089-00 1-216-089-00 1-216-097-00 1-216-089-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 100K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R844 R847 R850 R851 R852	1-216-077-00 1-216-049-00 1-216-085-00 1-216-669-11 1-216-675-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP	15K 1K 33K 5.6K 10K	5% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	
R535 R536	1-216-053-00 1-212-881-11	METAL GLAZE FUSIBLE	1.5K 100		1/10W 1/4W	F	R853 R854	1-216-105-00 1-218-754-11	METAL GLAZE METAL CHIP	220K 120K	5% 0.50%	1/10W 1/10W	



The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

The components identified by shading and mark  $\triangle$  are critical for safety.

Replace only with part number specified.

REF.NO. PART NO.			REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
R855 1-216-697-11 R856 1-216-699-11 R857 1-216-686-11 R858 1-216-061-00 R859 1-216-436-00	METAL CHIP 82K METAL CHIP 100 METAL CHIP 30K METAL GLAZE 3.3 METAL OXIDE 3.9	0.50% 1/10W K 0.50% 1/10W 0.50% 1/10W K 5% 1/10W K 5% 1W	; ; ; F	R1647 1-216-685-11 R1648 1-216-069-00 R1649 1-216-069-00 R1650 1-216-069-00 R1651 1-216-069-00	METAL CHIP 27K 0.50% 1/10W  METAL GLAZE 6.8K 5% 1/10W  METAL CHIP 18K 0.50% 1/10W  METAL GLAZE 22K 5% 1/10W  METAL GLAZE 22K 5% 1/10W  METAL GLAZE 3.9K 5% 1/10W  METAL GLAZE 1K 5% 1/10W  METAL GLAZE 5% 1/10W	
R860 1-216-675-11 R861 1-216-671-11 R862 1-216-675-11 R863 1-249-435-11 R1503 1-216-049-00	METAL CHIP 10K METAL CHIP 6.8 METAL CHIP 10K CARBON 33K METAL GLAZE 1K	0.50% 1/10W 0.50% 1/10W 0.50% 1/10W 5% 1/4W 5% 1/10W	F	R1652 1-216-069-00 R1653 1-216-069-00 R1654 1-216-681-11 R1655 1-216-081-00 R1656 1-216-683-11	METAL GLAZE 6.8K 5% 1/10W  METAL GLAZE 6.8K 5% 1/10W  METAL CHIP 18K 0.50% 1/10W  METAL CHIP 22K 5% 1/10W  METAL CHIP 470 0.50% 1/10W	
R1504 1-216-695-11 R1505 1-216-089-00 R1506 1-216-667-11 R1507 1-216-081-00 R1508 1-216-073-00	METAL CHIP 68K METAL GLAZE 47K METAL CHIP 4.7 METAL GLAZE 22K METAL GLAZE 10K	0.50% 1/10W 5% 1/10W 0.50% 1/10W 5% 1/10W 5% 1/10W	] ] ] ]	R1657 1-216-081-00  R1658 1-216-063-00 R1659 1-216-049-00 R1660 1-216-649-11	METAL GLAZE 22K 5% 1/10W  METAL GLAZE 3.9K 5% 1/10W  METAL GLAZE 1K 5% 1/10W  METAL CHIP 820 0.50% 1/10W  METAL GLAZE 1/10W	
R1509 1-216-065-00 R1510 1-249-425-11 R1511 1-216-033-00 R1512 1-216-049-00 R1513 1-216-017-00	METAL GLAZE 4.7 CARBON 4.7 METAL GLAZE 220 METAL GLAZE 1K METAL GLAZE 47	K 5% 1/10W K 5% 1/4W 5% 1/10W 5% 1/10W 5% 1/10W	F   	<pre></pre>	IABLE RESISTOR> RES, ADJ, CARBON 47K	
R1519 1-216-031-00 R1520 1-216-053-00 R1601 1-216-685-11 R1602 1-216-681-11 R1603 1-216-671-11	METAL GLAZE 180 METAL GLAZE 1.5 METAL CHIP 27K METAL CHIP 18K METAL CHIP 6.8	5% 1/10W 5% 1/10W 0.50% 1/10W 0.50% 1/10W	] ] ]	RV502 1-238-017-11 RV503 1-241-763-11 RV504 1-224-250-XX RV505 1-238-009-11	RES, ADJ, CARBON 47K RES, ADJ, CARBON 22K RES, ADJ, CERMET 4.7K RES, ADJ, METAL GLAZE 2.2K RES, ADJ, CARBON 220 RES, ADJ, CARBON 1K RES, ADJ, CARBON 2.2K	
R1604 1-249-433-11 R1605 1-216-070-00 R1606 1-216-070-00 R1607 1-216-071-00 R1608 1-216-065-00	CARBON 22K METAL GLAZE 7.5 METAL GLAZE 7.5 METAL GLAZE 8.2 METAL GLAZE 4.7	5% 1/4W K 5% 1/10W K 5% 1/10W K 5% 1/10W K 5% 1/10W	F 	RV507 1-238-013-11 RV508 1-238-012-11 RV509 1-238-021-11 RV511 1-238-015-11	RES, ADJ, CARBON 1K RES, ADJ, CARBON 2.2K RES, ADJ, CARBON 1K RES, ADJ, CARBON 220K RES, ADJ, CARBON 4.7K RES, ADJ, CARBON 4.7K RES, ADJ, CARBON 4.7K RES, ADJ, CARBON 220K RES, ADJ, CARBON 220K RES, ADJ, CERMET 4.7K RES, ADJ, METAL GLAZE 100K	
R1609 1-216-069-00 R1610 1-216-057-00 R1611 1-216-057-00 R1612 1-215-913-11	METAL GLAZE 6.8 METAL GLAZE 2.2 METAL GLAZE 2.2	K 5% 1/10W K 5% 1/10W K 5% 1/10W 5% 3W 5% 1/10W	; ; F	RV514 1-238-019-11 RV515 1-238-021-11 RV516 1-241-763-11 RV831 1-228-997-00	RES, ADJ, CARBON 47K RES, ADJ, CARBON 220K RES, ADJ, CERMET 4.7K RES, ADJ, METAL GLAZE 100K	
R1613 1-216-025-00  R1614 1-216-067-00  R1615 1-216-657-11  R1616 1-216-629-11  R1617 1-216-659-11	METAL GLAZE 100  METAL GLAZE 5.6  METAL CHIP 1.8  METAL CHIP 120  METAL CHIP 2.2	5% 1/10V K 5% 1/10V O .50% 1/10V O .50% 1/10V K 0 .50% 1/10V	,	RV832 1-241-764-11  ■RV833 A  RV1601 1-241-700-11  RV1602 1-238-012-11  ■RV1603 A	RES, ADJ, CERMET RES, ADJ, CERMET 2.2K RES, ADJ, CARBON 1K RES, ADJ, CERMET	
R1618 1-216-073-00 R1620 1-216-065-00 R1621 1-216-073-00 R1622 1-216-073-00 R1623 1-216-073-00 R1624 1-216-246-00	METAL GLAZE 4.7 METAL GLAZE 10K METAL GLAZE 10K METAL GLAZE 10K	K 5% 1/10V 5% 1/10V	) ]	RY1601 1-515-481-21	AY> RELAY (G2R-212P-V) NSFORMER>	
R1625 1-216-061-00 R1626 1-216-065-00 R1627 1-216-049-00 R1628 1-216-073-00 R1629 1-216-683-11	METAL GLAZE 100  METAL GLAZE 3.3  METAL GLAZE 4.7  METAL GLAZE 1K  METAL GLAZE 10K  METAL CHIP 22K	K 5% 1/10V K 5% 1/10V 5% 1/10V 5% 1/10V		T1601 1-437-216-11	· · · · · · · · · · · · · · · · · · ·	*****
R1630 1-216-683-11 R1631 1-216-057-00 R1632 1-216-042-00 R1633 1-216-109-00 R1634 1-216-099-00	METAL CHIP 22K METAL GLAZE 2.2 METAL GLAZE 510 METAL GLAZE 330 METAL GLAZE 120	0.50% 1/10V K 5% 1/10V 5% 1/10V K 5% 1/10V		*4-348-208-00 *4-341-751-01	HOLDER, LED EYELET EY5	
R1635 1-216-097-00 R1636 1-216-073-00 R1640 1-216-063-00 R1641 1-216-073-00 R1642 1-216-073-00	METAL GLAZE 100 METAL GLAZE 10K METAL GLAZE 3.9 METAL GLAZE 10K METAL GLAZE 10K	K 5% 1/10V 5% 1/10V K 5% 1/10V 5% 1/10V	)   	CN001 1-506-478-11 CN002 1-506-473-11	PIN, CONNECTOR 8P	
R1643 1-216-069-00 R1644 1-216-069-00 R1645 1-216-073-00 R1646 1-216-073-00	METAL GLAZE 6.8 METAL GLAZE 6.8 METAL GLAZE 10K METAL GLAZE 10K	K 5% 1/10V K 5% 1/10V 5% 1/10V	) 		DE> DIODE SLP281C-50 DIODE RD3.6ESB1	

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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td>C1109 C1110</td><td>1-163-031-11 1-163-117-00</td><td>CERAMIC CHIP CERAMIC CHIP</td><td>0.01MF 100PF</td><td>5%</td><td>50V 50V</td></res<>	ISTOR>			C1109 C1110	1-163-031-11 1-163-117-00	CERAMIC CHIP CERAMIC CHIP	0.01MF 100PF	5%	50V 50V
JW009 JW024 R001 R002 R003	1-216-295-00 1-216-295-00 1-247-713-11 1-216-295-00 1-216-295-00	METAL GLAZE 0 5% METAL GLAZE 0 5% CARBON 1K 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/4W 1/10W 1/10W		C1112 C1113 C1114	1-163-018-00 1-126-160-11 1-163-119-00 1-163-103-00 1-164-004-11	ELECT	1MF 120PF 27PF	10% 20% 5% 5% 10%	50V 50V 50V 50V 25V
R004	1-216-081-00	METAL GLAZE 22K 5%	1/10W		C1117	1-163-114-00 1-124-589-11	ELECT	47MF	5% 20%	50V 16V
		IABLE RESISTOR>			C1119	1-164-004-11 1-163-020-00 1-163-097-00	CERAMIC CHIP	0.0082MF	10% 10% 5%	25V 50V 50V
RV002 RV003 RV004	1-241-846-11 1-241-846-11 1-241-845-11 1-241-845-11 1-241-845-11	RES, VAR, CARBON 20K RES, ADJ, METAL GLAZE 2			C1121 C1122 C1123 C1130	1-163-097-00 1-163-222-11 1-163-097-00 1-163-097-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	15PF 5PF 15PF 15PF	5% 0.25PF 5% 5%	50V 50V 50V 50V
RV007	1-241-845-11 1-226-773-11 1-226-773-11	RES, VAR, CARBON 20K RES, ADJ, METAL GLAZE 2	2K			1-105-097-00	VECTORS	Der	2%	707
RV009	1-226-773-11 1-226-773-11 1-226-773-11	RES, ADJ, METAL GLAZE 2 RES, ADJ, METAL GLAZE 2 RES, ADJ, METAL GLAZE 2	2K 2K 2K		CN1101	<cun +1-565-488-11</cun 	CONNECTOR, BO	DARD TO BOAR	D 12P	
	1-440-119-11	RES, ADJ, METAL GLAZE 2 RES, ADJ, METAL GLAZE 2	۷۸		1 1 1 1	<dio< td=""><td></td><td></td><td></td><td></td></dio<>				
	<swi< td=""><td>TCH&gt;</td><td>_1</td><td></td><td>D1101 D1102</td><td>8-719-404-46 8-719-404-46</td><td>DIODE MA110 DIODE MA110</td><td></td><td></td><td></td></swi<>	TCH>	_1		D1101 D1102	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110			
S002	1-554-419-00	SWITCH, PUSH (1 KEY) SWITCH, PUSH (1 KEY)				· <ic></ic>				
S004	1-554-419-00 1-554-419-00 1-554-419-00	SWITCH, PUSH (1 KEY) SWITCH, PUSH (1 KEY) SWITCH, PUSH (1 KEY)			101101	<ic>8-752-056-67</ic>	IC CXA1214P			
S006	1-554-419-00	SWITCH, PUSH (1 KEY)				<001	L>			
	1-641-724-11	**************************************	******	******	L1102 L1103 L1104	1-404-496-00 1-404-496-00 1-408-411-00	COIL	15UH 15UH 15UH		
	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td>L1111</td><td>1-412-008-31</td><td>INDUCTOR CHIE</td><td>P 15UH</td><td></td><td></td></con<>	NECTOR>			L1111	1-412-008-31	INDUCTOR CHIE	P 15UH		
CN21 *	1-564-518-11	PLUG, CONNECTOR 3P				<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td></tra<>	NSISTOR>			
D22	8-719-023-78	E> DIODE SEL3810DLC05 DIODE SEL3810DLC05 DIODE SEL3810DLC05			Q1101 Q1102 Q1103 Q1104 Q1105	8-729-216-22 8-729-920-74 8-729-216-22 8-729-216-22 8-729-901-01	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR DT	GC2412K-QR GA1162-G GA1162-G		
		S BOARD, COMPLETE	*******	******	Q1107	8-729-901-01 8-729-109-44 8-729-920-74	TRANSISTOR DT TRANSISTOR 2S TRANSISTOR 2S	K94-X4	·	
	3-710-578-01	COVER, VOLUME, 6 MOLD					ISTOR>			
		ACITOR>			R1102 R1103	1-216-053-00 1-216-067-00 1-216-059-00	METAL GLAZE METAL GLAZE	1.5K 5% 5.6K 5% 2.7K 5%	1/10W 1/10W 1/10W	
C1102 C1103	1-164-004-11 1-124-589-11	CERAMIC CHIP 120PF CERAMIC CHIP 0.1MF ELECT 47MF	10% 20%	50V 25V 16V	R1104 R1105	1-216-073-00 1-216-031-00	METAL GLAZE METAL GLAZE	2.7K 5% 10K 5% 180 5%	1/10W 1/10W	
C1105	1-163-031-11 1-163-114-00	CERAMIC CHIP 0.01MF CERAMIC CHIP 75PF	5%	50V 50V	R1107	1-216-059-00 1-216-071-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 5% 8.2K 5% 390 5%	1/10W 1/10W 1/10W	
C1107		CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF CERAMIC CHIP 120PF	10%	50V 25V 50V	R1109	1-216-063-00	METAL GLAZE METAL GLAZE	390 5% 3.9K 5% 6.8K 5%	1/10W 1/10W	



The components identified by 

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation

ray radiation.
Should replacement be required, replace only with the value originally used.

The components identified by shading and mark  $\triangle$  are critical for safety.

Replace only with part number specified.

REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO. PART NO.	DESCRIPTION		REMARK
R1111 1-216-065-00 R1112 1-216-063-00 R1113 1-216-069-00 R1114 1-216-055-00 R1115 1-216-061-00 R1116 1-216-069-00 R1117 1-216-061-00 R1118 1-216-073-00 R1119 1-216-049-00 R1120 1-216-097-00 R1121 1-216-121-00 R1122 1-216-039-00 R1123 1-216-065-00 R1124 1-216-029-00 R1125 1-216-029-00 R1126 1-216-091-00 R1127 1-216-043-00 R1128 1-216-091-00 R1129 1-216-091-00 R1130 1-216-295-00 R1131 1-216-073-00 R1132 1-216-073-00 R1132 1-216-073-00 R1132 1-216-073-00	METAL GLAZE	5% 1/100 5% 1/100	1.8 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	L602 A 1-424-574-11 L651 A 1-424-255-41	DIODE ESAC39M 06C DIODE D3SB60 DIODE JSS119TD DIODE ESAC38-06TP1 DIODE ERA38-06TP1 DIODE RD20ES-T1B3 DIODE ESAC39M 06C  HIC CH-1018 IC TL431CLP IC TL431CLP IC TLP732GR-LF2  L> TRANSFORMER, LINE F1 L.F.T COIL, CHOKE (MOLDE)		
R1133 1-216-073-00 R1134 1-216-091-00		5% 1/10V 5% 1/10V		L652 <u>M</u> 1-424-615-11 	NSISTOR>		
	IABLE RESISTOR>			Q601 ▲ 8-729-322-18			
	RES, ADJ, CARBON 4.7 RES, ADJ, CARBON 2.2			, DEC	I CTOD		
<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td>R601 A 1-205-940-51</td><td>ISTOR&gt; CEMENT 1.5</td><td>5% 5₩</td><td>.<b>F</b></td></tra<>	NSISTOR>			R601 A 1-205-940-51	ISTOR> CEMENT 1.5	5% 5₩	. <b>F</b>
T1101 1-404-584-11				R602 A 1-205-940-51 R603 A 1-215-904-11	CEMENT 1.5 METAL OXIDE 100K	5% 5W 5% 2W	न न
********	************	*******	******	R604 A 1-215-904-11 R605 A 1-212-865-61	METAL OXIDE 100K FUSIBLE 22	5% 2W 5% 1/4W	F
	G BOARD (SOPS-1021)			R606 A 1-247-805-91 R607 A 1-260-128-91	CARBON 82 CARBON 270K	5% 1/4W 5% 1/2W 5% 1/2W 5% 2W	
<b>∆</b> 4-812-134-11	RIVET NYLON, 3.5 ¢			R608 ↑ 1-260-128-91 R609 ↑ 1-215-904-51 R610 ↑ 1-207-455-11	CARBON 270K METAL OXIDE 100K WIRE 0.22	5% 1/2W 5% 2W 10% 1/2W	F
<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td>¦ R612 ∧ 1-247-795-91</td><td>CARBON 18 CARBON 33</td><td>5% 1/4W 5% 1/4W</td><td></td></cap<>	ACITOR>			¦ R612 ∧ 1-247-795-91	CARBON 18 CARBON 33	5% 1/4W 5% 1/4W	
C601 A 1-136-889-11 C602 A 1-136-889-11 C603 A 1-161-973-51 C604 A 1-161-973-51	METALIZED FILM 0.22N METALIZED FILM 0.22N CERAMIC 220PF CERAMIC 220PF	MF 20% MF 20% 10% 10%	250V 250V 400V 400V	R613 A 1-215-904-51 R614 A 1-247-815-91 R651 A 1-215-886-51	METAL OXIDE 100K CARBON 220 METAL OXIDE 100	5% 2W 5% 1/4W 5% 2W	F
c605 ▲ 1-161-973-51	CERAMIC 220PF	10%	400V	R652 A 1-215-886-51 R653 A 1-260-107-91	CARBON 4.7K	5% 2W 5% 1/2W	F
C608 A 1-161-742-51 C609 A 1-161-742-51 C610 A 1-125-724-11	CERAMIC 0.00221 CERAMIC 0.00221 ELECT 180MF	MF 20% 20%	400V 400V 400V	R654 ↑ 1-260-107-91 R655 ↑ 1-247-867-91 R656 ↑ 1-247-867-91	CARBON 33K	5% 1/2W 5% 1/4W 5% 1/4W	
C611 ▲ 1-136-206-21 C612 ▲ 1-124-910-51	METALIZED FILM 0.033 ELECT 47MF	3MF 10% 20%	630V 50V	R657 ▲ 1-247-837-91	CARBON 1.8K	5% 1/4W	
C614 A 1-137-190-91 C615 A 1-130-471-91	METALIZED FILM 0.22M METALIZED FILM 0.22M PE TEREPHTHALATE 0.0	MF 5% 001MF 5%	50V 50V 50V	1 .	NIABLE RESISTOR>		
C651	CERAMIC 100PF I ELECT 680MF	B 10% 20%	500V 50V	■RV651 <u>A</u> 1-237-443-11	RES, ADS, CARDON IN		
C653 A 1-128-485-51 C654 A 1-130-483-91	ELECT 220MF PE TEREPHTHALATE 0.0	20% 01MF 5%	50V 50V	1	NSFORMER>	rco	
∠rn.	INECTOR>			1	TRANSFORMER, CONVER		******
	HORIZONTAL PIN ASSY	<b>3</b> P					
CN651A+1-564-518-11							

The components identified by shading and mark  $\triangle$  are critical for safety.

Replace only with part number specified.

REF.NO. PART NO.

DESCRIPTION

REMARK

# MISCELLANEOUS

⚠ 1-413-720-21 SWITCHING REGULATOR (SOPS-1021)
⚠ 1-426-043-12 COIL, DEGAUSSING
⚠ 1-451-319-22 DEFLECTION YOKE (Y9FXC)
1-452-126-11 MAGNET
1-543-925-11 CORE, FERRITE

1-544-252-11 SPEAKER
1-690-871-11 CARLE (MINI DIN) 8P

1-544-252-11 SPEAKER 1-690-871-11 CABLE (MINI DIN) 8P V901 A. 8-737-151-05 PICTURE TUBE (A20JKU10X) (PVM-9041QM) A. 8-737-651-05 PICTURE TUBE (M20JMP10X) (PVM-9044QM)

# ACCESSORIES & PACKING MATERIALS

PART NO.	DESCRIPTION	REMARK
A. 1-590-910-11 1-690-871-11 2-990-241-02 *3-170-078-01 *3-704-301-01	CORD SET, POWER (10.0A/250V) CABLE (MINI DIN) 8P HOLDER (A), PLUG HOLDER (B), PLUG BAG (STANDARD), PROTECTION	
3-754-506-21 4-034-835-01 *4-034-955-01 *4-034-956-01 *4-035-784-01	MANUAL, INSTRUCTION PLATE, TALLY CUSHION (UPPER) (ASSY) CUSHION (LOWER) (ASSY) INDIVIDUAL CARTON	

# PVW-9041QM/9044QM

# SONY. SERVICE MANUAL

AEP Model
PVM-9041QM
Chassis No. SCC-F09B-A
PVM-9044QM
Chassis No. SCC-F09A-A

# **SUPPLEMENT-1**

### INTRODUCTION

• B board: The transistor is changed to the pair transistor (Q189).

The diodes are changed to the three-terminal diodes.

(D185, D186, D187, D188, D191, D390 and D1382)

• D board: The transistors are changed to the pair transistors.

(Q569, Q576, Q579 and Q599)

The diodes are changed to the three-terminal diodes.

(D520, D521, D848, D1620, D1622 and D1623)

• S board: The pattern is modified.

## Note)

Before using the circuit board, confirm that the parts number shown below and the parts number of the circuit board which is being used in your set are the same.

Board (Complete No.)	Board Part. No.
B (A-1135-716-A)	1-641-716-15
D (A-1346-018-A)	1-641-717-16
S (A-1394-368-A)	1-641-719-15



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2.	ELE	CTRICAL PARTS LIST	• 31

### (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAPTOTHE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

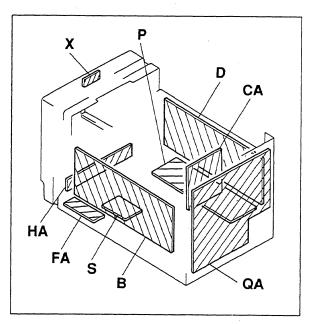
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

# SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK \$\triangle\$ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND INTHE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

# SECTION 1 DIAGRAMS

# 1-1. CIRCUITS BOARDS LOCATION



Part replaced (☑)	Adjustment (☑)
IC601, IC651, PH602, C655, R653, R655, R656, R657, RV651	RV651 (B+ MAX)
Q1601, Q1602, Q1603, D1601, D1603, D1622, D1623, C1601, C1602, R1601, R1602, R1603, R1604, R1605, R1606, R1607, R1608, R1628, R1629, R1630, RV1601, RV1603	RV1603 (B+ MAX IN DC POWER INPUT MODE)
IC502, Q833, Q834, Q835, Q836, D835, D836, C519, C843, C844, C845, C846, C847, C848, RV833, R523, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R861, R862, R863, NL801	R833 (HOLD-DOWN)

# 1-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

### Note:

- All capacitors are in μF unless otherwise noted. pF: μμF
   50 WV or less are not indicated except for electrolytic.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power ¼ W

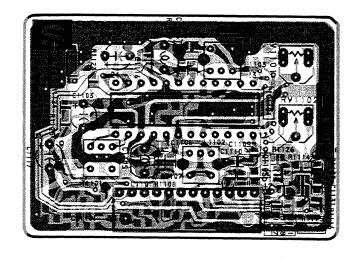
- All resistors are in ohms.
- : nonflammable resistor.
- fusible resistor.
  \( \Delta \) : internal component.
- \_\_\_\_\_: panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by 
   ☐ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
- Should replacement be required, replace only with the value originally used.
- When replacing the part in below table be sure to perform the related adjustment.

### Reference information

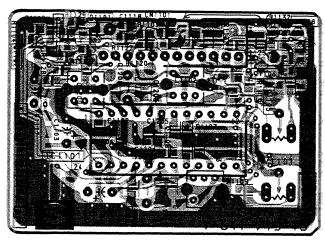
. to or or or or migration			
RESISTOR	: RN	METAL FILM	
	: RC	SOLID	
	: FPRD	NONFLAMMABLE CARBON	
	: FUSE	NONFLAMMABLE FUSIBLE	
	: RS	NONFLAMMABLE WIREWOUND	
	: RB	NONFLAMMABLE CEMENT	
COIL	: LF-8L	MICRO INDUCTOR	
CAPACITOR	: TA	TANTALUM	
	: PS	STYROL	
	: PP	POLYPROPYLENE	
	: PT	MYLAR	
	: MPS	METALIZED POLYESTER	
	: MPP	METALIZED POLYPROPYLENE	
	: ALB	BIPOLAR	
	: ALT	HIGH TEMPERATURE	
	: ALR	HIGH RIPPLE	

# S [SECAM DEMODULATION]

- S Board - - Component Side -

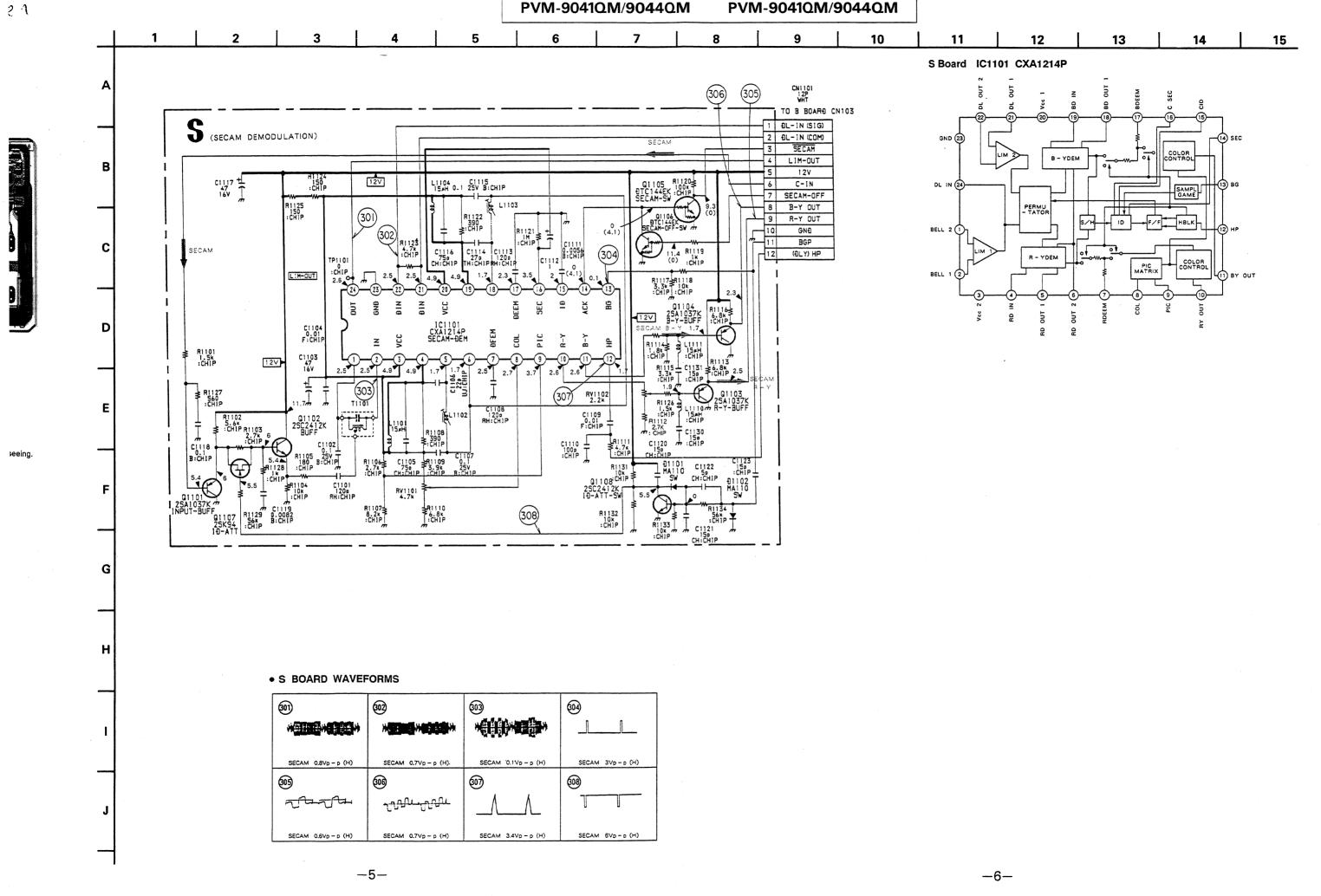


- S Board - - Conductor Side -



- Pattern from the side which enables seeing.
- Pattern of the rear side.

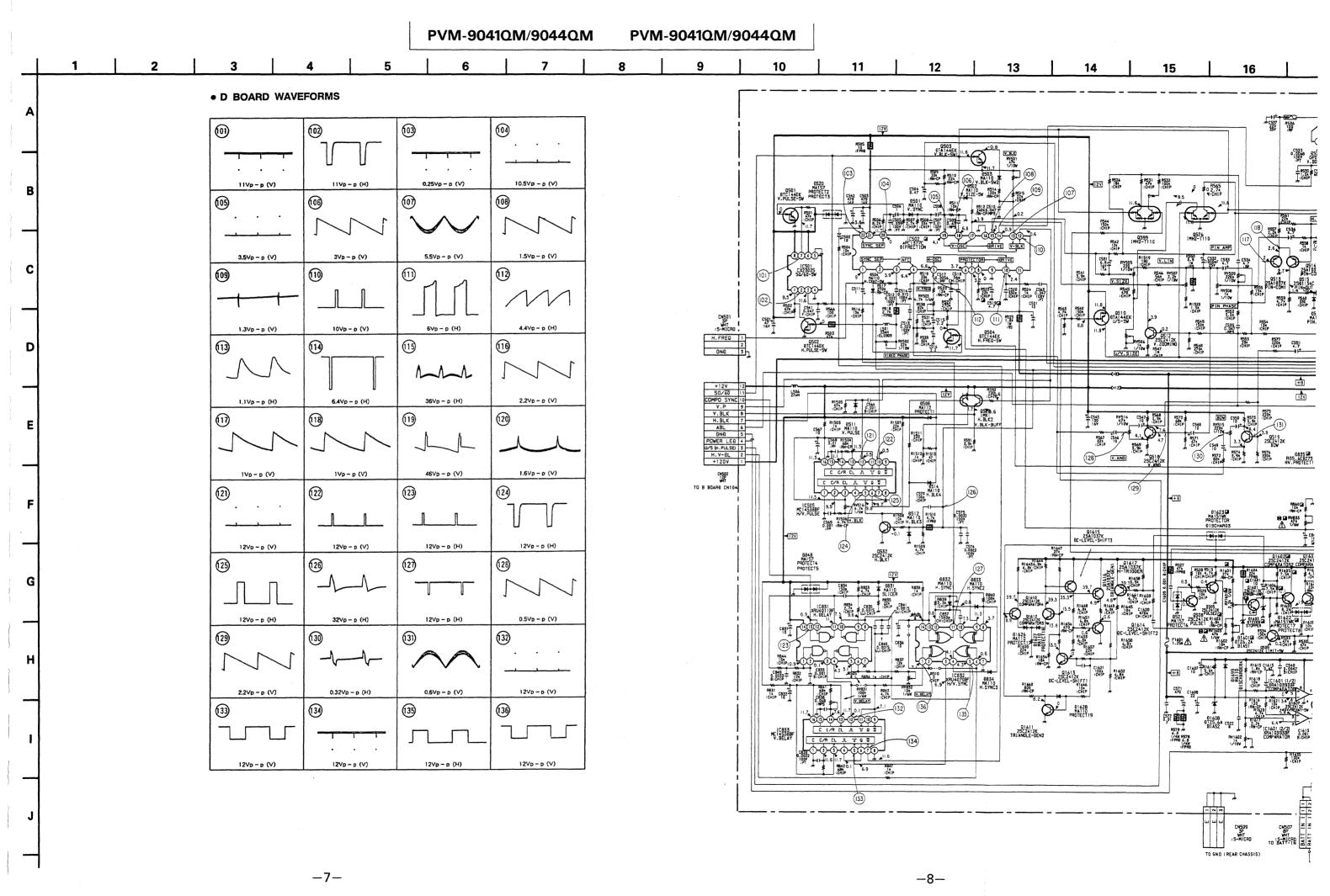
-3-

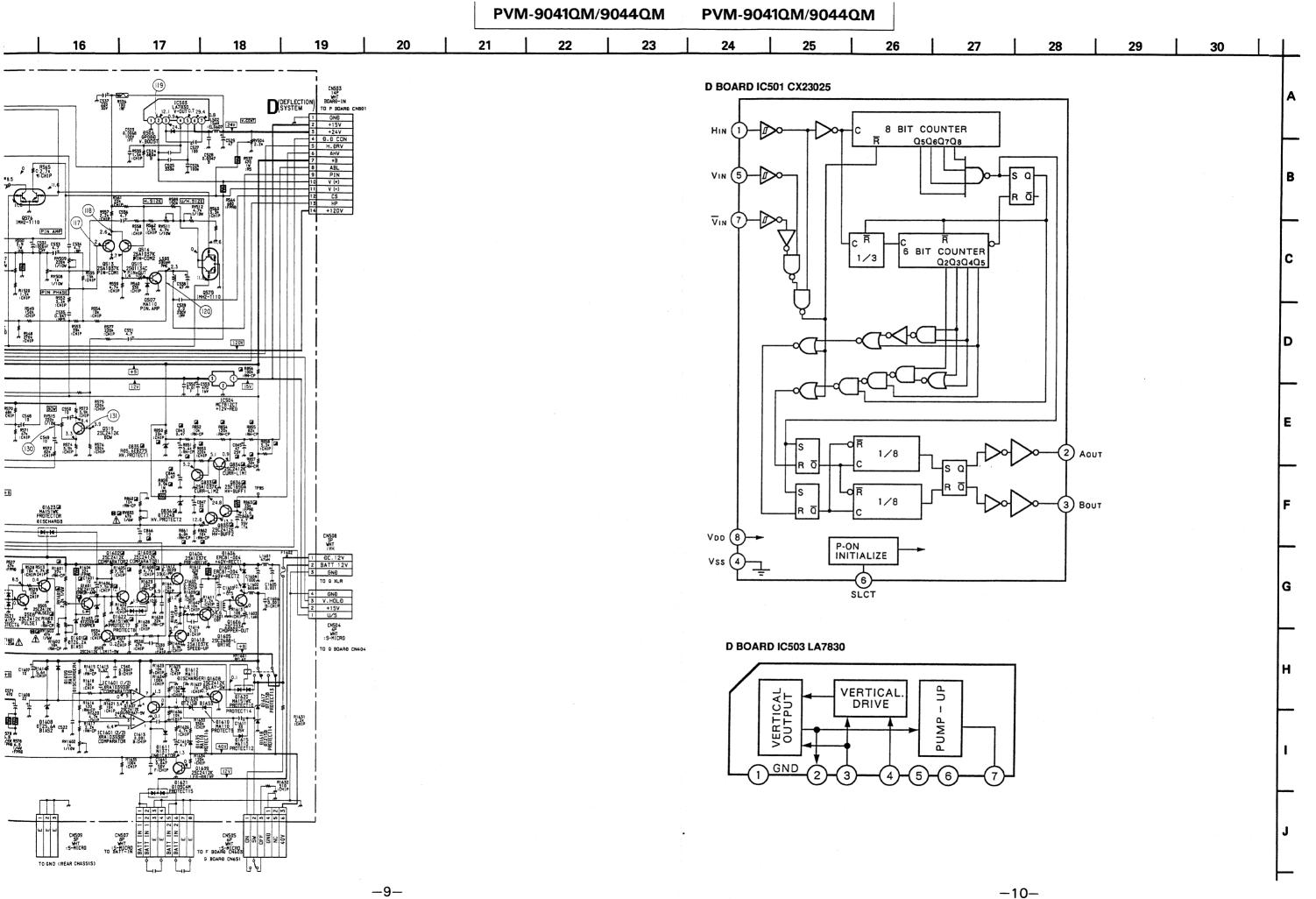


SONY SP-00151/ DRUCK32

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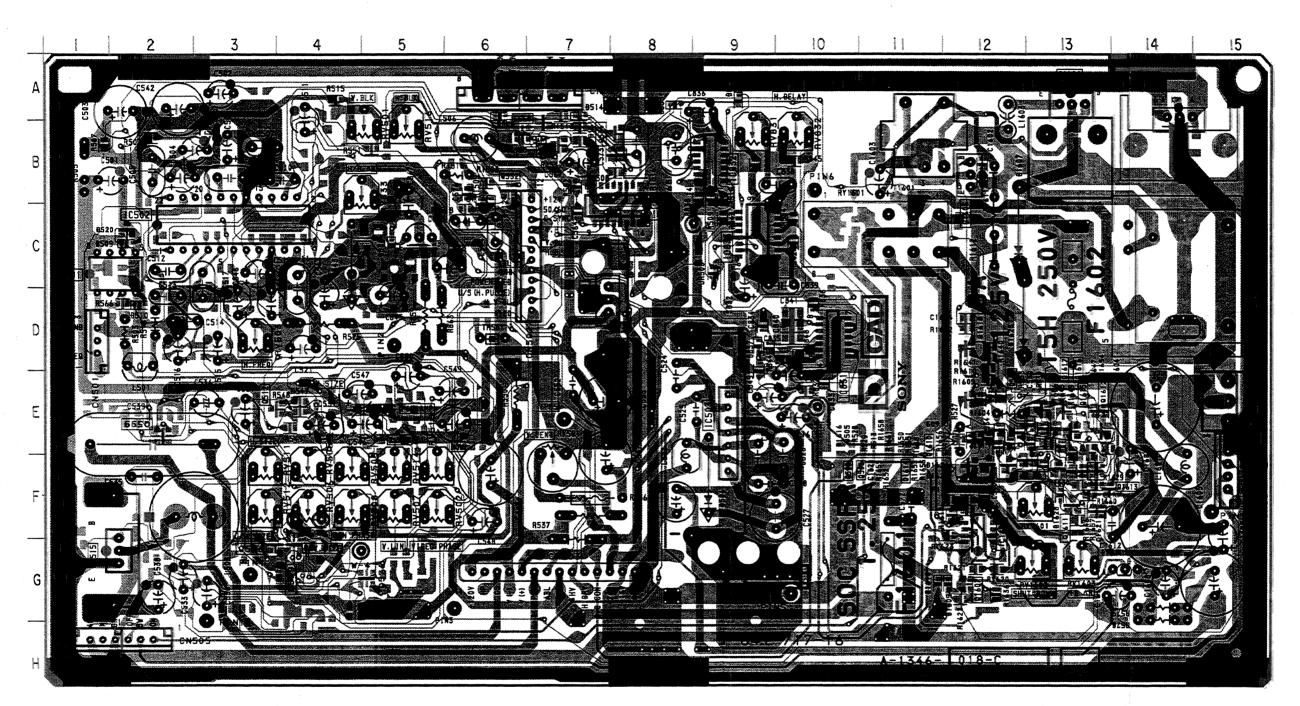
- - -







- D Board - - Component Side -



# D Board (Component Side)

IC						
IC505 IC831 IC832 IC833 IC1601	C-8 D-10 B-9 C-9 F-12					
TRAN	SISTOR					
Q579 Q599 Q1607 Q1610 Q1611 Q1612 Q1613 Q1614 Q1615 Q1616	E-2 G-12 E-13 F-13 E-13 F-13 E-13 E-13 E-13					
DI	ODE					
D508 D512 D514 D520 D521	A-6 C-6 A-7 C-2 F-12					
	IC505 IC831 IC832 IC833 IC1601  TRAN:  Q505 Q508 Q509 Q512 Q532 Q579 Q1610 Q1611 Q1612 Q1613 Q1614 Q1615 Q1616 Q1617 Q1618  DI  D508 D512 D508					

D521 F - 12
D833 A - 8
D834 A - 9
D836 C - 5
D848 D - 10
D1609 G - 12
D1610 G - 10
D1626 F - 13

D1627 F-13 D1628 F-13

- Pattern from the side which enables seeing.
   Pattern of the rear side.

# A=1346= 018=C

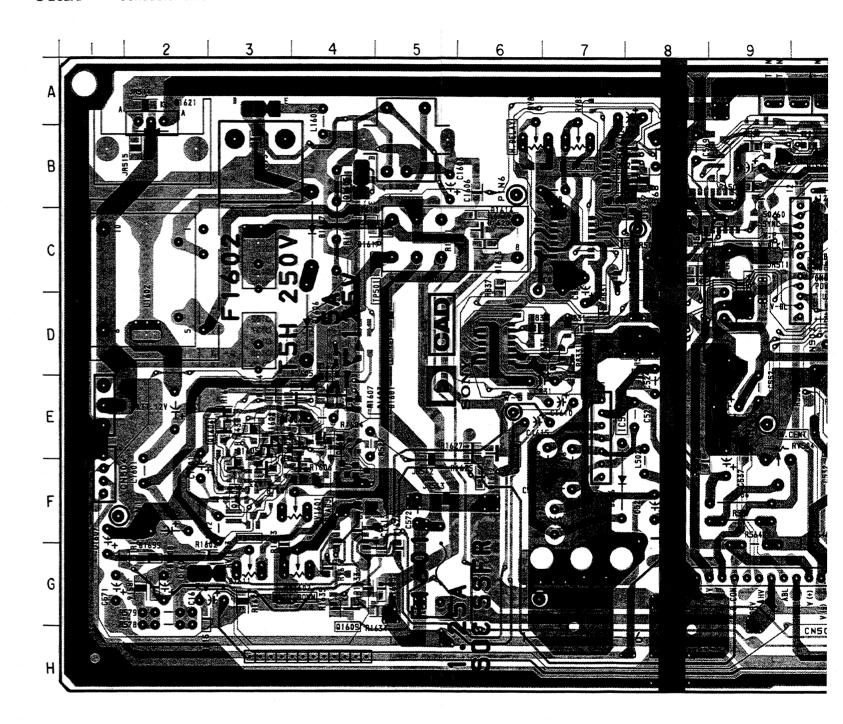
# D Board (Component Side)

	IC
IC505	C-8
IC831	D-10
IC832	B-9
IC833	C-9
IC1601	F-12

TRANSISTOR				
Q505	F-12			
Q508	F-12			
Q509	E-12			
Q512	E – 4			
Q532	B-6			
Q576	G – 5			
Q579	G – 4			
Q599	E - 2			
Q1607	G - 12			
Q1610	E - 13			
Q1611	F - 13			
Q1612	E - 13			
Q1613	F - 13			
Q1614	F-13			
Q1615	E - 13			
Q1616	E-13			
Q1617	E - 13			
01618	D - 12			
l				

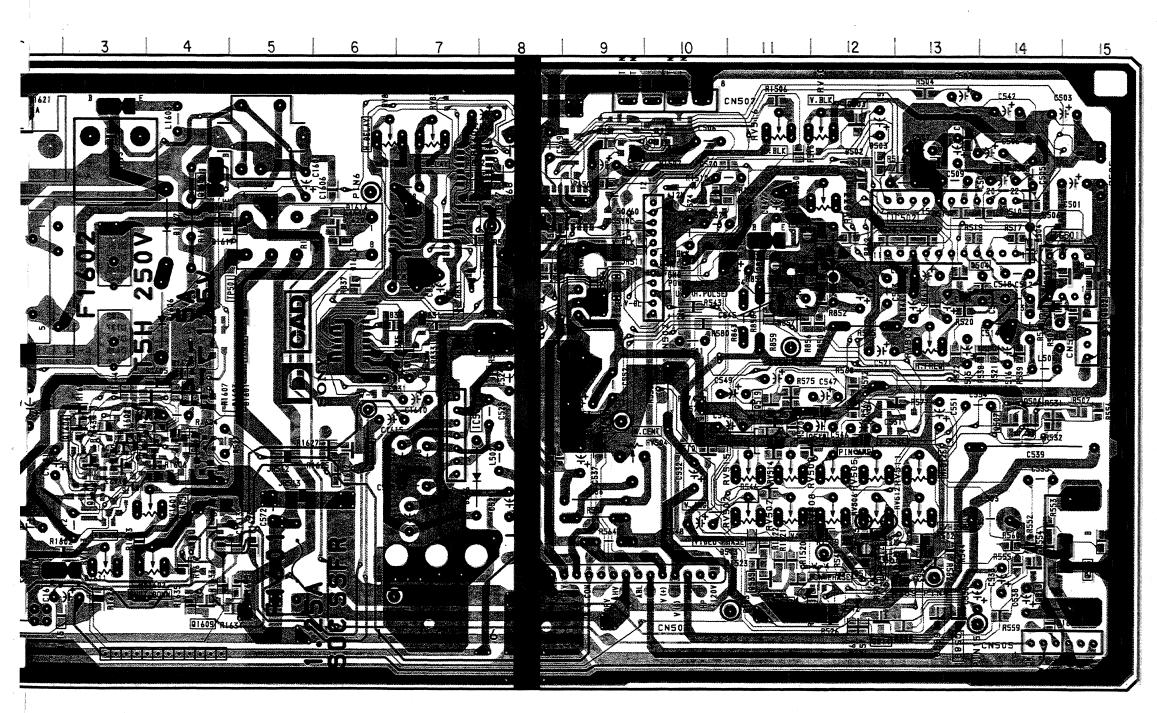
DIODE				
D508	A - 6			
D512	C - 6			
D514	A-7			
D520	C - 2			
D521	F-12			
D833	A - 8			
D834	A - 9			
D836	C - 5			
D848	D - 10			
D1609	G - 12			
D1610	G-10			
D1626	F - 13			
D1627	F - 13			
D1628	F - 13			

- D Board - - Conductor Side -



Pattern from the side which enables seeing.
 Pattern of the rear side.

r Side -



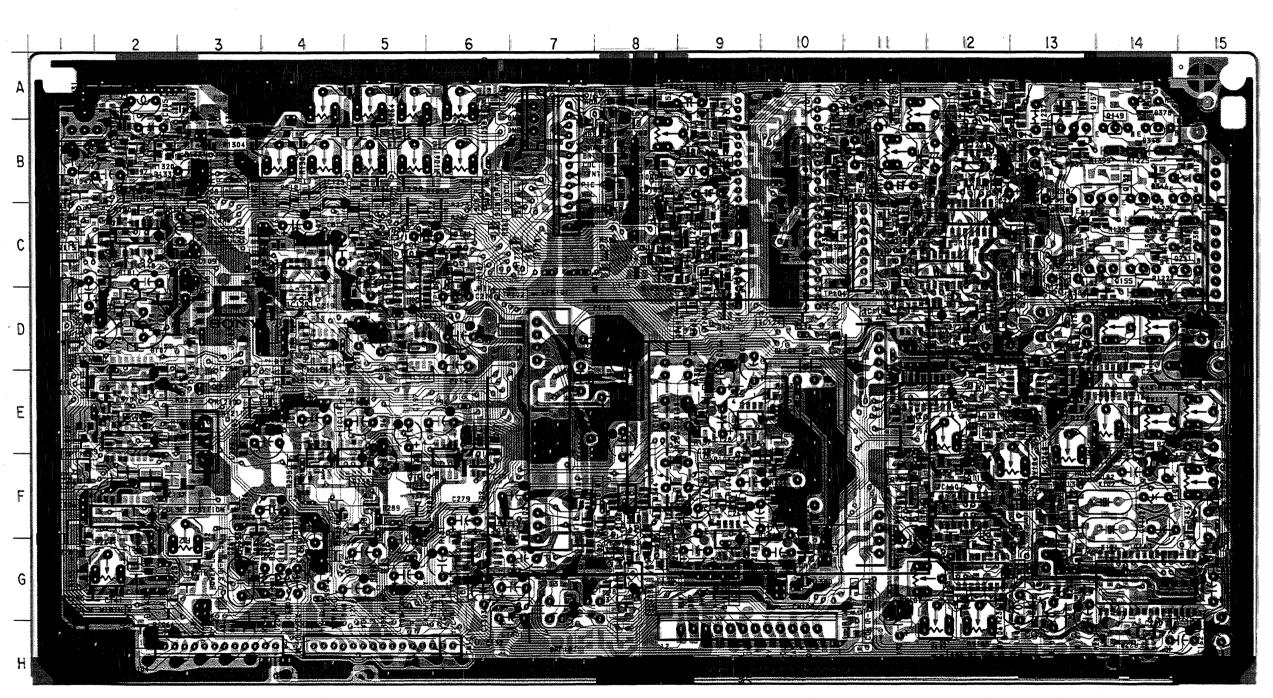
# D Board (Conductor Side)

	ra (Con	auctoi	Olde,
	IC	D835	C-12 E-4
IC501	C - 15	D1603	E-4
1		D1606	D-4
IC502	C - 13	D1607	C-4
IC503	E - 7	1	
IC504	D - 9	D1608	G - 2
		D1611	G – 3
		D1612	F-6
TRAN	SISTOR	D1615	G – 2
		D1617	C-4
Q501	C - 15	D1618	C - 4
0502	D - 15	D1620	C-6
0503	A - 12	D1622	E-4
		D1623	F-3
Q504	C - 13	D1635	G-5
Q510	E-10		G-2
Q513	G - 14	D1699	G – 2
Q515	G - 15		
Q518	E-12	<del></del>	
Q519	E-11	VAR	ABLE
Q569	B-6	RESI	STOR
Q589	G - 13	RV501	B - 12
			F-11
0833	C - 12	RV502	
Q834	C - 11	RV503	D - 13
Q835	C - 11	RV504	E-9
Q836	C - 11	RV505	F - 12
Q1601	E-4	RV506	F-12
Q1602	E - 4	RV507	F - 11
Q1603	F-3	RV508	F - 12
Q1604	E - 3	RV509	F - 12
Q1605	B - 4	RV511	F - 13
Q1606	A - 3	RV512	F - 13
Q1608	E-6	RV514	F-11
Q1609	G - 4	RV515	F-11
01609	G-4		
		RV516	B - 11
		RV831	B-7
DI(	ODE	RV832	B-6
		RV833	B - 12
D501	B - 13	RV1601	F-4
D502	B - 12	RV1602	G-4
D503	B - 12	RV1603	G-3
D504	C - 14	110 1000	5-5
	F-7		-
D506			
D507	G – 15		
D511	C-8		
D589	G - 13		
D831	D-7		
D832	B - 7		

- Pattern from the side which enables seeing.
   Pattern of the rear side.



- B Board - - Component Side -

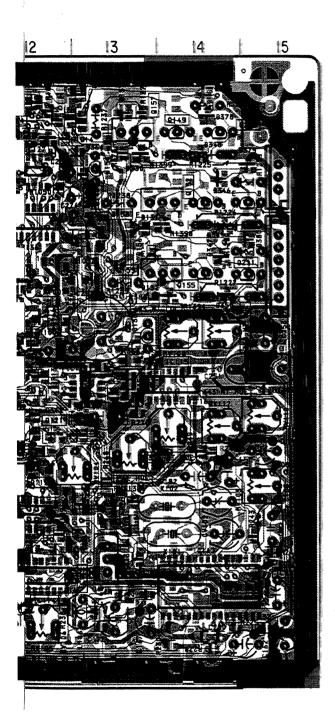


# B Board (Component Side)

	IC	Q189 Q191	G – 4 B – 2
IC102	G-9	Q193	B - 1
IC102	G-8	Q196	B - 2
IC103	E-9	Q197	B - 2
IC104	G-6	Q198	A - 3
IC105	F - 2	Q200	F-8
IC103	E – 2	0204	8-9
IC108	E – 2	Q205	A - 9
IC109	C - 2	Q206	A - 8
IC110	F - 12	Q208	B - 3
IC111	E - 11	Q212	C - 11
IC113	G-14	Q299	A - 11
IC114	G-12		
IC115	E - 14	DI	ODE
IC116 IC117	D = 11 F = 6		
IC118	F - 5	D107	D - 2
IC119	F - 4	D121	E-4
IC120	C – 4	D122	E – 4 C – 4
IC121	D - 5	D123	E-1
IC122	D - 5	D130	B - 13
IC123 IC125	D - 4 C - 12	D131	C - 14
IC125	C = 12	D132	D-14
IC127	C - 12	D137	G - 11
IC128	E-13	D138	B - 13
IC129	B-4	D139	C - 13
		D146	D - 12
		D151	C - 5
TRAN	SISTOR	D152	B – 4 B – 4
Q101	F-6	D154	B - 13
Q104	G - 10	D156	C - 13
Q109	A - 12	D157	A - 13
Q115 .	C-1	D162	B - 11
Q119	F - 12	D188	C - 9
Q121	E - 12	D191	C - 1
Q124	F - 11	D342	D - 12
Q129	G – 3	D343	H - 2
Q132	C - 5	D344	F - 8
Q136	F - 6	D345	A - 14
Q137	F – 5	D346	B-14
Q138	F - 5	D347	C-14
0141	C - 6	D348	B - 14 C - 14
Q150	G-8	D349 D350	D - 14
Q164	B - 12 D - 12	D350	D - 14 D - 1
Q166 Q171	D-12	D393	G-3
Q176	F-9		

Pattern from the side which enables seeing.

Pattern of the rear side.

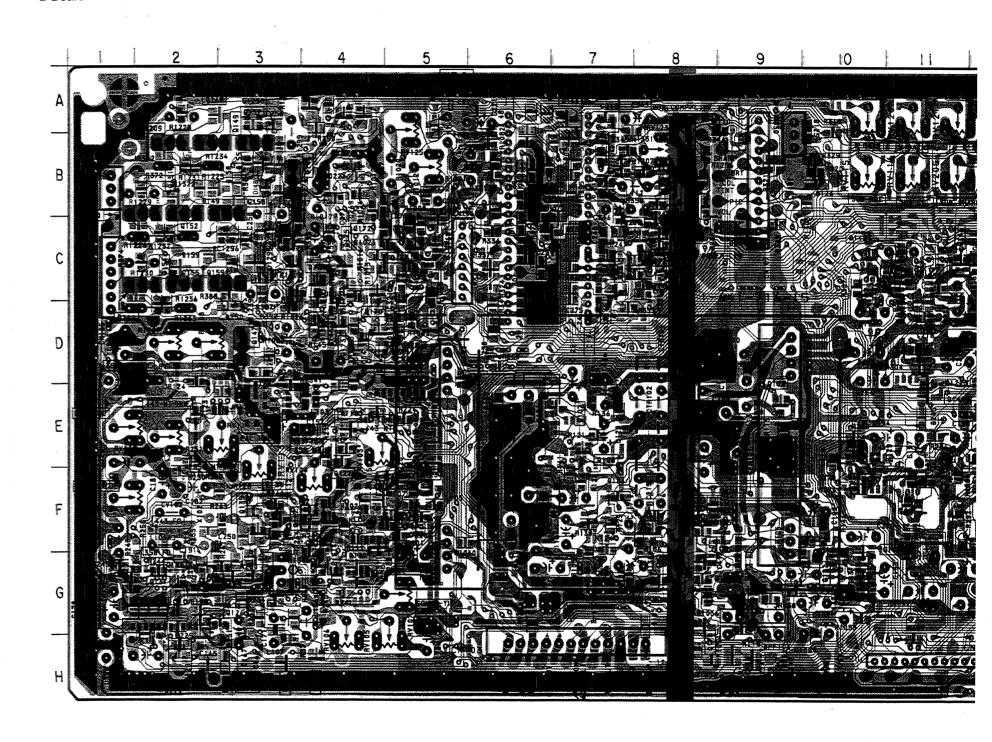


# B Board (Component Side)

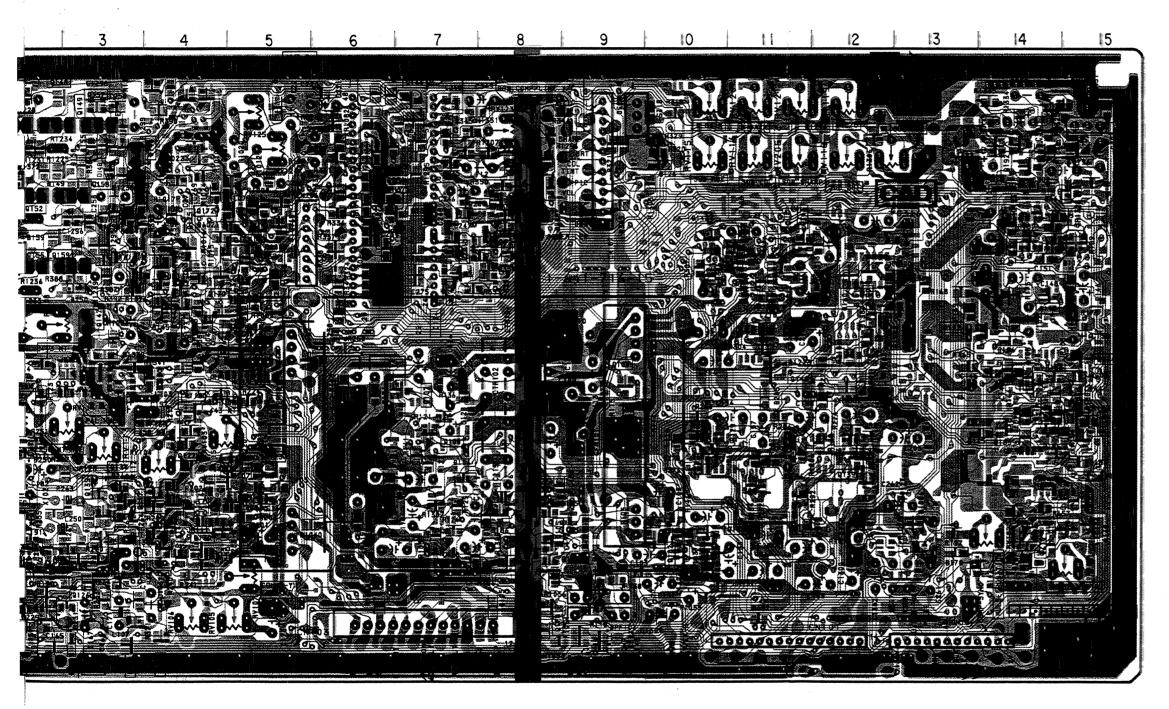
IC	Q189 Q191	G – 4 B – 2
IC102 G-9 IC103 G-8 IC104 E-9 IC105 G-6 IC106 F-2 IC107 E-2 IC108 E-2 IC109 C-2 IC110 F-12 IC111 E-11 IC113 G-14 IC114 G-12	Q193 Q196 Q197 Q198 Q200 Q204 Q205 Q206 Q208 Q212 Q299	B-1 B-2 B-2 A-3 F-8 B-9 A-9 A-8 B-3 C-11 A-11
IC115 E-14 IC116 D-11	DI	ODE
IC117 F - 6 IC118 F - 5 IC119 F - 4 IC120 C - 4 IC121 D - 5 IC122 D - 5 IC123 D - 4 IC125 C - 12 IC126 C - 12 IC127 C - 12 IC128 E - 13 IC129 B - 4	D107 D121 D122 D123 D128 D130 D131 D132 D137 D138 D139 D146 D151	D-2 E-4 E-4 C-4 E-1 B-13 C-14 D-14 G-11 B-13 C-13 D-12 C-5
TRANSISTOR	D152	B - 4 B - 4
Q101 F-6 Q104 G-10 Q109 A-12 Q115 C-1 Q119 F-12 Q121 E-12 Q121 E-11 Q129 G-3 Q132 C-5 Q136 F-6 Q137 F-5 Q138 F-5 Q141 C-6 Q150 G-8 Q164 B-12 Q166 D-12 Q171 F-9 Q176 F-9	D154 D156 D157 D162 D188 D191 D342 D343 D344 D345 D346 D347 D348 D349 D350 D390 D393	B - 13 C - 13 A - 13 B - 11 C - 9 C - 1 D - 12 H - 2 F - 8 A - 14 B - 14 C - 14 B - 14 C - 14 D - 14 D - 1 G - 3

- Pattern from the side which enables seeing.
- Pattern of the rear side.

- B Board - - Conductor Side -



r Side -

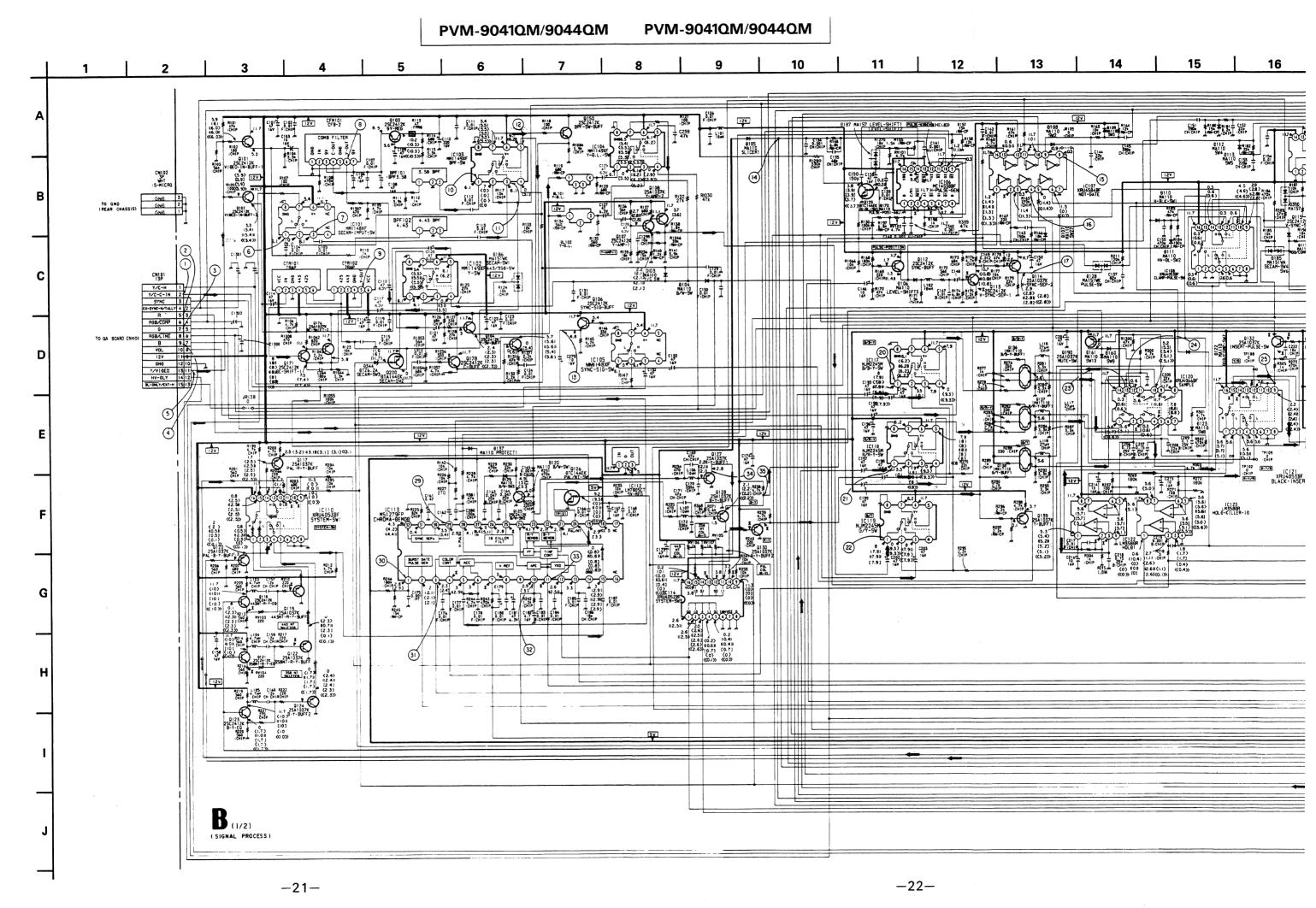


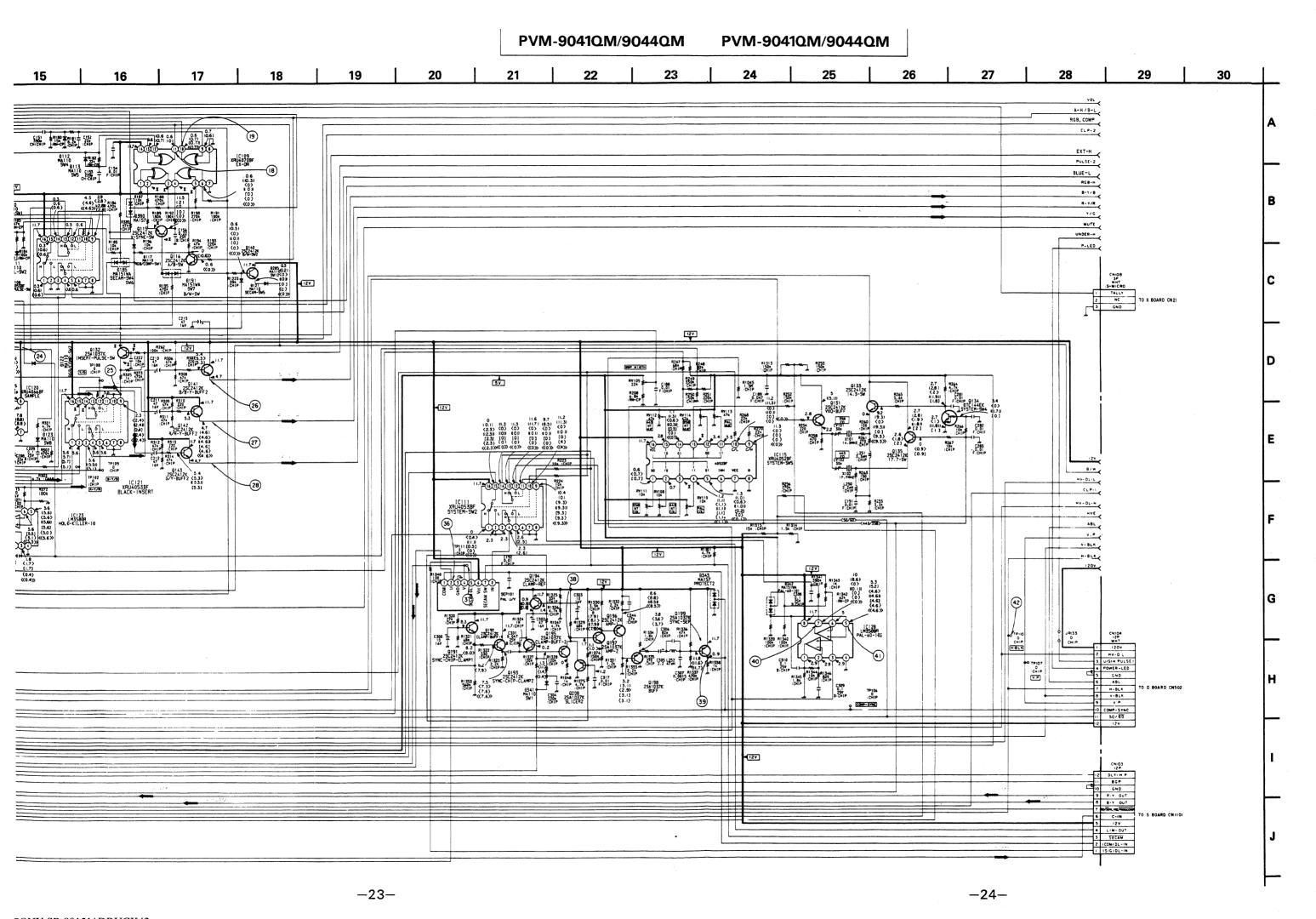
# B Board (Conductor Side)

					1/AB	IABLE
		IC	Q174 Q175	C - 4 C - 4	RES	STOR
	IC112	G - 3	Q177	A - 4	RV101	G - 15
	IIC124	C-7	Q179	A - 4	RV102	G-14
			Q190	C-12	RV103	E – 4
	TDAN	CICTOD	Q192	B - 14	RV104	F – 4
	IRAN	SISTOR	Q194 Q195	B – 15 B – 14	RV105	H - 5
	Q102	G - 10	Q199	A - 15	RV106 RV107	H – 4 G – 5
	Q103	E-9	Q201	C-7	RV107	D - 2
	Q106	F - 10	Q202	C-8	RV108	F-1
	Q107	E - 7	Q203	C-8	RV110	E - 1
	Q108	E - 7	Q210	B - 2	RV111	D - 2
	Q112	D - 14	Q211	C - 2	RV112	E - 2
	Q113	D - 14			RV113	F - 3
	Q114 Q116	D – 15 E – 15	DI	ODE	RV114	E-3
	Q117	F-15	Di	ODE	RV115 RV116	A - 10 B - 11
	Q118	E - 4	D104	F - 7	RV118	B - 12
	Q120	F – 4	D105	G-8	RV119	A - 12
	Q122	F – 4	D106	D-14	RV120	A - 11
	Q123	F - 5	D108	E - 14	RV121	A - 11
	Q125 Q126	H – 2	D109	E - 14	RV122	A - 10
	Q127	G – 3 H – 4	D111	F - 14 F - 15	RV123	B - 8
	Q128	H-3	D112	C - 15	RV124 RV125	B-5
	Q130	G-4	D113	C-14	RV205	A – 5 B – 11
	Q131	G - 2	D117	E - 14	11.0200	D11
	Q133	G - 3	D120	H - 3		
	Q134	F - 3	D125	A - 10		
	Q135	F - 3	D126	B - 10	-	
	0139	F-12	D127	F - 13		
	Q140 Q142	E - 11 C - 10	D129	H - 2 B - 6		
	Q143	C - 11	D134	C-6		
	Q144	A - 7	D135	C-6		
	Q145	C - 7	D136	D-3		
	Q146	B - 3	D144	D - 4		
	Q147	D - 3	D145	D-4		
	Q148 Q149	A - 2 B - 2	D147	A – 5 B – 3		
	Q151	B - 2	D149	B - 2		
	Q152	B - 2	D150	D - 3	1.	
	Q153	C-7	D155	B - 3		
	Q154	C - 2	D158	B <b>-</b> 3		
	Q155	C - 2	D159	C - 2		
	Q157	B-3	D160	D - 12		
	Q158	B-3	D161	D - 12	1	
	Q159 Q160	C-3 A-4	D170 D185	G – 13 E – 14		
	Q160	C-3	D186	F-8		
	Q165	D-4	D187	G – 14		
	Q167	C-5	D285	E-11		
	Q168	C-5	D289	B - 8		
	Q170	C-4	D341	B - 14		
	Q172	C-4	D1382	D - 12		
	Q173	D-4				
•					<u> </u>	

Pattern from the side which enables seeing.

Pattern of the rear side.





-26-

-25-

# — B Board —

<b>*</b>	TRANSISTOR >
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	< INANSISTOR >							
		PAL	SECAM	NTSC 3.58	NTSC 4.43	8 (Y/C)	ANALOG RGB	COMPO- NENT
Q113	E	0.5	0.5	0.4	0.4	0.5	0.5	0.5
	В	1.0	1.0	0.9	0.9	0.9	0.9	1.0
Q115	E	11.2	9.3	0.0	10.6	0.0	0.0	0.0
	В	2.8	2.2	0.1	2.4	0.1	0.1	0.0
Q118	E	0.0	0.0	1.7	1.7	1.7	1.7	1.7
Q119	В	0.1	0.0	1.7	1.7	1.7	1.7	1.7
Q121	E	0.0	0.0	1.7	1.7	1.7	1.7.	1.7
Q122	В	0.0	0.0	1.7	1.7	1.7	1.7	1.7
Q130	E	4.3	4.3	4.4	4.4	4.5	4.4	4.4
	В	3.7	3.7	3.8	3.8	3.9	3.8	3.8
Q132	E	2.3	2.3	2.4	2.3	2.4	2.4	2.4
	С	1.8	1.7	1.7	1.7	1.7	1.8	1.8
	В	2.7	2.6	2.6	2.7	2.8	2.7	2.8
Q146	С	116.7	114.4	110.4	113.2	113.7	114.3	114.1
Q147	E	117.9	115.6	111.6	114.5	115.0	115.5	115.4
	С	126.0	123.5	120.3	123.4	123.8	124.8	124.4
	В	119.8	119.5	110.5	118.4	118.2	114.2	114.2
Q148	С	88.1	84.9	91.2	83.4	82.6	82.5	82.2
	В	94.0	93.3	86.3	92.4	92.1	94.2	90.6
Q149	Е	1.6	1.6	1.4	1.7	1.7	1.7	1.7
	c	86.1	84.9	91.2	83.4	82.7	82.5	82.5
Q151	E	90.7	91.4	98.0	87.9	87.0	86.5	86.4
	c	89.2	89.8	98.5	88.4	85.3	84.9	84.7
	В	92.1	92.7	100.2	89.5	92.4	90.5	88.9
Q152	E	86.1	88.0	92.6	82.6	82.9	82.6	82.7
	c	10.8	10.5	9.7	10.9	10.9	10.9	11.0
Q154	В	92.5	92.9	99.8	90.1	88.7	90.4	89.2
Q155	В	88.3	88.5	95.7	85.7	83.9	84.6	83.9
Q157	E	82.4	81.1	87.5	79.9	79.9	80.8	79.4
	В	86.0	84.8	91.2	84.4	82.7	82.5	82.1
Q158	E	1.8	1.5	1.3	1.6	1.6	1.7	1.7
4.00	В	2.1	2.0	1.8	2.1	2.2	2.2	2.2
Q159	E	1.6	1.6	1.3	1.6	1.7	1.7	1.7
4,56	В	2.2	2.1	1.5	2.1	2.2	2.2	2.2
Q163	E	0.2	0.6	2.7	0.5	-0.5	-0.7	-0.8
Q188	В	0.9	0.0	0.6	1.0	1.0	1.0	1.0
Q188	C	2.1	2.0	1.6	2.1	2.2	2.1	2.2
0170	В	2.3	2.3	2.1	2.4	2.4	2.4	2.4
Q172	В	2.2	2.1	1.9	2.2	2.3	2.2	2.3
Q173	В	1.7	1.6	1.4	1.7	1.7	1.7	1.7
Q174	E	2.1	2.0	1.8	2.1	2.2	2.2	2.2
41/4	В	1.6	1.5	1.3	1.6	1.6	1.7	1.7
Q178	В	6.2	6.3	8.2	8.3	6.1	8.2	8.2
Q209	E	83.4	81.5	87.9	80.3	80.4	80.4	79.8
4208	C	115.8	113.2	110.7	113.2	113.8	114.5	114.2
	В	87.8	86.4	92.8	85.0	84.3	84.2	83.8
0210	E	86.5	86.3	93.1	83.0	83.3	83.0	82.8
Q210	C	116.5	114.2	111.5	113.9	114.5	115.1	114.8
		1 110.3	114.2	1	1 . 13.8	1	1	1

# < IC >

< IC >								
		PAL	SECAM	NTSC 3.58	NTSC 4.43	s (Y/C)	ANALOG RGB	COMPO- NENT
IC102	0	6.6	8.8	0.0	6.6	0.0	0.0	0.0
IC106	2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
	(4)	1.8	1.7	1.7	1.7	1.7	1.8	1.8
IC107	0	10.7	10.7	10.6	10.6	10.6	10.6	10.6
	0	1.2	10.7	0.0	0.0	0.0	0.0	0.0
IC108	0	9.7	0.4	9.7	9.6	9.6	1.1	9.8
IC109	0	11.3	11.3	0.0	10.8	0.0	0.0	0.0
	3	11.3	11.4	0.0	11.3	0.0	0.0	0.0
	<b>(4)</b>	11.7	0.0	0.0	11.7	0.0	0.0	0.0
	3	11.0	11.1	0.0	11.0	0.0	0.0	0.0
IC110	@	2.1	2.2	2.5	2.5	2.5	2.5	2.5
	0	11.3	11.3	0.0	11.3	0.0	0.0	0.0
	0	11.3	11.3	0.0	0.0	0.0	0.0	0.0
	0	0.8	0.8	2.5	2.5	2.5	2.5	2.5
	3	1.7	1.7	2.5	2.6	2.5	2.5	2.5
IC113	<b>(4)</b>	2.7	1.1	2.6	2.6	2.6	1.1	1.1
	0	4.2	4.3	4.2	4.3	4.3	4.8	4.8
	0	3.0	2.9	2.8	3.0	2.8	2.9	2.9
	6	2.2	2.5	2.9	2.2	1.9	2.8	2.8
IC114	0	11.4	11.3	0.0	0.0	0.0	0.0	0.0
	0	3.7	3.7	3.8	3.8	3.8	3.9	3.9
IC115	3	1.2	1.1	0.6	0.7	0.7	0.6	0.6
	(3)	3.5	3.5	3.4	2.8	3.4	3.4	3.4
IC118	2	0.0	0.0	1.0	1.1	1.1	1.3	1.1
IC120	3	5.5	5.8	5.6	5.6	5.6	5.6	5.6
	<b>(4)</b>	5.5	5.8	5.6	5.6	5.6	5.0	5.6
IC121	0	5.3	5.3	5.4	5.2	5.2	5.1	5.1
	130	5.8	5.7	5.8	5.6	5.7	5.7	5.7
	(3)	5.8	5.7	5.6	5.6	5.7	5.7	5.8
IC122	0	5.3	5.3	5.4	5.2	5.2	5.1	5.1
	3	5.3	5.3	5.4	5.2	5.2	5.1	5.1
IC124	0	0.1	0.1	0.2	0.2	0.2	0.2	0.2
IC125	(4)	1.4	1.4	1.3	1.4	1.5	1.5	1.5
·1C126	0	1.6	1.5	1.3	1.6	1.6	1.7	1.8
	(5)	1.6	1.5	1.3	1.6	1.6	1.6	1.7
	0	1.7	1.8	1.4	1.7	1.7	1.8	1.7
IC127	0	3.0	2.9	2.6	3.0	3.1	3.0	3.0
	0	1.4	1.4	1.3	1.5	1.5	1.5	1.5
	0	2.1	2.7	2.4	2.8	2.8	2.8	2.8

# • B BOARD WAVEFORMS

(1	)	2		3	
		Munhu	-7,17,1-		Marrie Marrie
	S (Y/C) 0.5Vp - p (H)	RGB 1Vp-p (H)	COMPONENT 0.5Vp - p (H)	RGB 1Vp-p (H)	COMPONENT 1Vp-p (H)
4			5		6
	VunnVnnn	-1000-1000			Hala
-	RGB 0.8Vp - p (H)	COMPONENT 0.75Vp - p (H)	PAL 1Vp-p (H)	S (Y/C) 1Vp-p (H)	PAL 0.9Vp - p (H)
(6	The state of the s	y Congression		7 Hall 18 - Hall 18 -	8
	SECAM 1.1Vp - p (H)	NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H)	S (Y/C) 1Vp-p (H)	S (Y/C) 0.5Vp - p (H)	SECAM IVp-p(H)
8	y The year		1777	1 Land Land	7 CT-7 CT-
	NTSC3.58 1Vp - p (H)	NTSC4.43 1Vp - p (H)	S (Y/C) 1Vp-p (H)	PAL 0.75Vp - p (H) SECAM 0.75Vp - p (H)	NTSC3.58 1Vp - p (H)
9		100			111
	har har	-	-	Hall Hall	+ 155 ++ 155
_	NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)	PAL 0.2Vp - p (H)	NTSC3.58 0.3Vp - p (H)	NTSC4.43 0.15Vp - p (H)	PAL 0.3Vp - p (H)
(	D		12	13	
		-	HARMAN HARMAN	Marria Maria	Property I
	SECAM 0.2Vp - p (H)	NTSC3.58 0.2Vp - p (H) NTSC4.43 0.3Vp - p (H)	S (Y/C) 0.2Vp-p (H)	PAL 0.9Vp - p (H) SECAM 0.9Vp - p (H)	NTSC3.58
(13	3)		14	15	(6)
		Report Report			
-	RGB 0.8Vp - p (H)	COMPONENT 1Vp - p (H)	4Vp - p (H)	12Vp - p (H)	12Vp - p (H)
10		18	19	<b>2</b>	20
				1000	
	12Vp - p (H)	12Vp - p (H)	12Vp - p (H)	SECAM 0.6Vp - p (H)	SECAM 0.5Vp - p (H)
(2)	2) - January 1	الهدالهب		<b>③</b> _⊥	@   _
	PAL 0.7Vp - p (H)	SECAM 0.8Vp - p (H)	NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)	12Vp - p (H)	12Vp - p (H)

25	28		. n . n	
	Mr Mir	᠆᠊ᠰ᠕ᠾᡅᠽᠰᠾᠬ	AM-AM-	ᠰᠲᡀᠰᢖᡀᢔ
12Vp - p (H)	PAL 1.2Vp - p (H)	SECAM 1.2Vp - p (H)	NTSC3.58 1.2Vp - p (H) NTSC4.43 1.2Vp - p (H)	S (Y/C) 1.2Vp-p (H)
26		<b>1</b>		
nrownrow	᠇ᠾᢔ᠆ᡙᢔ	-7_77_1-	Manne	<del>allall</del>
RGB 1.4∨p−p (H)	COMPONENT 1.4Vp - p (H)	PAL 1.3Vp - p (H)	SECAM 1.2Vp - p (H)	NTSC3.58 1.3Vp - p (H) NTSC4.43 1.3Vp - p (H) S (Y/C) 1.3Vp - p (H)
27		28		
nnnn	7/1-1/1-	اسماس		
RGB 1.4Vp−p (H)	COMPONENT 1.4Vp - p (H)	PAL 1.2Vp - p (H) SECAM 1.2Vp - p (H) COMPONENT 1.4Vp - p (H)		RGB 1.4Vp - p (H)
<b>1</b> 29	(a) / / -	31)		32
PAL 1Vp - p (H) SECAM 1Vp - p (H)	PAL 1Vp - p (H) SECAM 1Vp - p (H)	+133+133-		مابسيهماسي
NTSC3.58 1Vp - p (H) NTSC4.43 1Vp - p (H) S (Y/C) 1Vp - p (H)	NTSC3.58	PAL 0.36Vp-p(H)	NTSC3.58 0.3Vp - p (H) NTSC4.43 0.3Vp - p (H) S (Y/C) 0.32Vp - p (H)	PAL 0.2Vp-p (H)
32	33		ΛΛΛ	34
*****	The latest three states		VVVV'	
SECAM IVp-p(H)	PAL 0.7Vp - p (H)	SECAM 1.1Vp - p (H)	NTSC3.58 1.0Vp - p (H) (3.58MH <sub>2</sub> ) NTSC4.43 0.6Vp - p (H) (4.43MH <sub>2</sub> ) S (Y/C) 1.0Vp - p (H) (3.58MH <sub>2</sub> )	PAL 1.2Vp - p (H)
34	35		36	
<del>مار مار</del>	Man Man	<del>نالال ، المار</del>	+	
NTSC3.58 1.2Vp - p (H) NTSC4.43 1.2Vp - p (H) S (Y/C) 1.2Vp - p (H)	PAL 0.5Vp - p (H)	NTSC3.58 1.2Vp - p (H) NTSC4.43 0.6Vp - p (H) S (Y/C) 1.2Vp - p (H)	PAL 0.4Vp - p (H)	SECAM 0.1Vp - p (H)
36	<b>37</b>			
	+-		100	
NTSC3.58 0.3Vp - p (H) NTSC4.43 0.45Vp - p (H) S (Y/C) 0.35Vp - p (H)	PAL 0.55Vp - p (H)	SECAM 0.1Vp - p (H)	NTSC3.58 0.4Vp - p (H) S (Y/C) 0.4Vp - p (H)	PAL 0.4Vp - p (H) SECAM 1Vp - p (H) RGB 0.4Vp - p (H) COMPONENT 0.4Vp - p (H)
38	39	40	41)	@
			- John	PAL 8.5Ve-> 01) SCCAM 11Ve-> 00
NTSC3.58 0.4Vp - p (H) NTSC4.43 0.4Vp - p (H) S (Y/C) 0.4Vp - p (H)	12Vp – p (H)	PAL 11Vp-p(H)	PAL 1.8Vp - p (H)	PAL 85Vs - 9 00 \$10AM 11Vs - 9 00 NTSC158 11Vs - 9 00 NTSC158 11Vs - 9 00 NTSCA43 11Vs - 9 00 \$ (7/C) 11Vs - 9 00 RG8 85Vs - 9 00 COMPONENT 85Vs - 9 00
43				44
- Thurth		all all	7 Jungs	ᠰᠻᡀᠰᡗᡢᡙ
PAL 0.35Vp - p (H)	SECAM 0.35Vp - p (H)	NTSC3.58 0.35Vp - p (H) NTSC4.43 0.32Vp - p (H) S (Y/C) 0.35Vp - p (H)	COMPONENT 0.28Vp - p (H)	PAL 0.45Vp-p(H)
44		- N - n	45)	
-4000r-1000r	<del>MM MM</del>	<sup>-</sup> ՄՄՄ ՄՄՄ -	7~~~~	THE
SECAM 0.45Vp - p (H)	NTSC3.58 0.45Vp - p (H) NTSC4.43 0.4Vp - p (H)	S (Y/C) 0.33Vp - p (H) COMPONENT 0.36Vp - p (H)	PAL 0.5Vp - p (H) SECAM 0.5Vp - p (H) COMPONENT 0.6Vp - p (H)	NTSC3.58 0.8Vp - p (H) NTSC4.43 0.8Vp - p (H) S (Y/C) 0.6Vp - p (H)

46				
<del> mil m m-</del>		<del></del>	<del></del>	<del></del>
PAL 0.36Vp - p (H)	SECAM 0.35Vp - p (H)	NTSC3.58 0.8Vp - p (H)	NTSC4.43 0.6Vp - p (H)	S (Y/C) 0.8Vp - p (H)
46	<b>47</b>	48	49	60
COMPONENT 0.3Vp - p (H)	4.6Vp - p (V)	10.4Vp - p (V)	3.5Vp - p (V)	3.5Vp - p (H)
_lww_lwn (2)	ուրուուրու	र क्रियंपर क्रियंपर	_lww_lww	ւյտտյտ
PAL 2.6Vp - p (H)	SECAM 3Vp-p (H)	NTSC3.58 3.2Vp - p (H) NTSC4.43 3.2Vp - p (H) S (Y/C) 3.2Vp - p (H)	COMPONENT 3Vp - p (H)	RGB 2.7Vp - p (H)
<b>1</b>				
,[	ساسس	10,00	Health Health	-
PAL 2.6Vp - p (H)	SECAM 2.6Vp - p (H)	NTSC3.58 3.4Vp - p (H) NTSC4.43 3.4Vp - p (H) S (Y/C) 3.4Vp - p (H)	RGB 2.7Vp - p (H)	COMPONENT 3Vp - p (H)
<b>(3)</b>		المرابية المرابية	47 47	
7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		NTSC3.58 3.1Vp - p (H)		-1 -1 -1 -1 -1 -1
PAL 2.5Vp - p (H)	SECAM 2.6Vp - p (H)	NTSC4.43 3.1Vp - p (H) S (Y/C) 3.1Vp - p (H)	RGB 2.6Vp - p (H)	COMPONENT 2.8Vp - p (H)
64		65	66	57
PAL 0.6Vp - p (V)			, <u> </u>	
SECAM 0.6Vp - p (V)  RGB 0.6Vp - p (V)  COMPONENT 0.6Vp - p (V)	NTSC3.58 0.9Vp - p (V) NTSC4.43 1Vp - p (H) S (Y/C) 0.7Vp - p (V)	11Vp-p(H)	10Vp-p (H)	2.4Vp-p (H)
68				
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PAL 72Vp - p (H)	SECAM 80Vp - p (H)	NTSC3.58 86Vp - p (H) NTSC4.43 90Vp - p (H) S (Y/C) 86Vp - p (H)	RG8 70Vp-p(H)	COMPONENT BOVD - p (H)
59				
	~~~~~	THE THE		
PAL 76Vp-p (H)	SECAM 72Vp - p (H) NTSC3.58 72Vp - p (H)	NTSC4.43 90Vp - p (H) S (Y/C) 86Vp - p (H)	RGB 70Vp-p (H)	COMPONENT 80Vp - p (H)
60				
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PAL 66Vp-p (H)	SECAM 64Vp-p (H)	NTSC3.58 80Vp - p (H) NTSC4.43 90Vp - p (H) S (Y/C) 80Vp - p (H)	RGB 70Vp - p (H)	COMPONENT 80Vp - p (H)

NOTE:

The compone The compone shading and r cal for safety Replace only specified.

REF.NO. PART

\*A-11

BPF101 1-23 BPF102 1-23

C101 1-12 C102 1-16 C103 1-12 C104 1-16 C105 1-16 C106 C107 C108 C109 C110

1-16 1-16 1-16 1-12 1-16 C111 C112 C113 C114 C115 C116 C117 C118 C119 C120

C121 C122 C123 C124 C125

C126 C127 C128 C129 C130

C131 C132 C133 C134 C135

C137 1-16 C138 1-12 C139 1-16 C140 1-16 C141 1-16

C142 1-16

4

PAL 0.36Vp - p (H)

COMPONENT 0.3Vp - p (H

-luw-iuu

PAL 2.6Vp - p (H)

PAL 2.6Vp - p (H)

SECAM 0.35Vp - p (H)

4.6Vp - p (V)

Mountain

SECAM 3Vp - p (H)

SECAM 2.6Vp - p (H)

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47)

46)

**46**)

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(52)

(53)

# **SECTION 2 ELECTRICAL PARTS LIST**



NOTE:

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

- · Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS · All resistors are in ohms • F : nonflammable

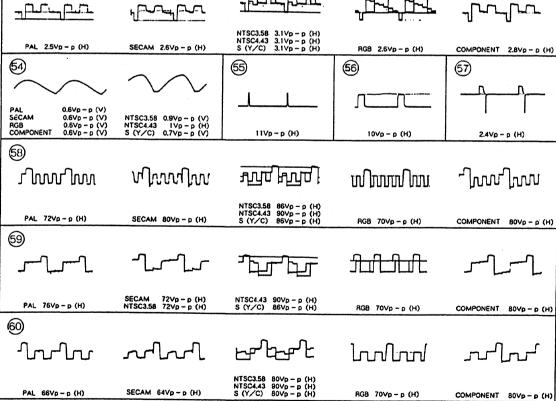
ence number, please include the board name. CAPACITORS

When indicating parts by refer-

COILS MF : μF, PF : μμF MMH : η H, UH : μH

• The components identified by **M** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

					* -					
]	REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
		*A-1135-716-A	B BOARD, COMPLETE					CERAMIC CHIP 150PF CERAMIC CHIP 22PF CERAMIC CHIP 390PF ELECT 10MF	5% 5% 5% 20%	50V 50V 50V 16V
		<fii.< td=""><td>TFR&gt;</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></fii.<>	TFR>			1				
	BPF101 BPF102		FILTER, BAND PASS FILTER, BAND PASS			C147 C148 C149 C150 C151	1-164-232-11 1-126-160-11 1-163-022-00 1-124-589-11 1-163-131-00	CERAMIC CHIP 0.01MF ELECT 1MF CERAMIC CHIP 0.012MF ELECT 47MF CERAMIC CHIP 390PF	10% 20% 10% 20% 5%	50V 50V 50V 16V 50V
			ACITOR>			C152	1-163-101-00	CERAMIC CHIP 22PF	5%	50V
	C101 C102 C103 C104 C105	1-124-589-11 1-163-031-11 1-126-157-11 1-163-031-11	ELECT 47MF CERAMIC CHIP 0.01MF ELECT 10MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	20% 20%	16V 50V 16V 50V 50V	C152 C153 C154 C155 C156	1-163-031-11 1-163-133-00 1-164-299-11	CERAMIC CHIP 22PF CERAMIC CHIP 220PF CERAMIC CHIP 0.01MF CERAMIC CHIP 470PF CERAMIC CHIP 0.22MF	5% 10%	50V 50V 50V 25V
	C106 C107 C108 C109	1-124-477-11 1-163-031-11 1-124-477-11 1-124-477-11	ELECT 47MF CERAMIC CHIP 0.01MF ELECT 47MF ELECT 47MF	20% 20% 20% 20%	16V 50V 16V 16V 16V	C157 C158 C159 C160 C161	1-163-229-11 1-124-477-11 1-163-229-11 1-163-229-11 1-124-902-00	CERAMIC CHIP 12PF ELECT 47MF CERAMIC CHIP 12PF CERAMIC CHIP 12PF ELECT 0.47MF	5% 20% 5% 5% 20%	50V 16V 50V 50V 50V
	C110 C111 C112 C113 C114 C115	1-163-031-11 1-163-031-11 1-124-477-11		20%	50V 50V 50V 16V 50V	C162 C163 C164 C165 C166	1-163-809-11 1-163-809-11 1-163-009-11	ELECT 1MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01MF	20% 10% 10% 10%	50V 25V 25V 50V 50V
	C116 C117 C118 C119 C120	1-124-589-11 1-126-154-11 1-126-154-11 1-163-031-11 1-126-154-11	ELECT 47MF ELECT 47MF ELECT 47MF CERAMIC CHIP 0.01MF		16V 6.3V 6.3V 50V 6.3V	C167 C168 C169 C170 C171	1-163-129-00	ELECT 47MF CERAMIC CHIP 0.01MF CERAMIC CHIP 47PF CERAMIC CHIP 330PF CERAMIC CHIP 47PF		16V 50V 50V 50V 50V
	C121 C122 C123 C124 C125	1-126-154-11 1-124-477-11	ELECT 47MF ELECT 47MF		6.3V 16V 50V 50V 6.3V	C172 C173 C174 C175 C176	1-124-589-11 1-124-477-11 1-108-792-11 1-163-031-11		20% 20% 5%	50V 16V 16V 50V 50V
	C126 C127 C128 C129 C130	1-163-031-11 1-126-154-11 1-126-154-11 1-163-031-11	CERAMIC CHIP 0.01MF ELECT 47MF		50V 6.3V 6.3V 50V	i		CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF ELECT 1MF CERAMIC CHIP 0.01MF ELECT 47MF		50V 50V 50V 50V 6.3V
	C131 C132 C133 C134 C135		CERAMIC CHIP O.O1MF ELECT 47MF	20% 20% 5% 5%	50V 16V	C182 C183 C184 C185 C186	1-163-031-11	ELECT 4.7MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 18PF	20% 10% 5%	16V 50V 50V 50V 50V
	C137 C138 C139 C140	1-163-115-00 1-124-589-11 1-163-031-11 1-163-205-00	CERAMIC CHIP 82PF ELECT 47MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.001MF	5% 20% 5%	50V 16V 50V 50V	C187 C188 C189 C190 C191	1-163-031-11 1-163-031-11 1-163-035-00 1-163-121-00 1-163-031-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.047MF CERAMIC CHIP 150PF CERAMIC CHIP 0.01MF	5%	50V 50V 50V 50V 50V
	C141 C142	1-163-141-00 1-163-031-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01MF	9%	50 <b>V</b>	C192 C193	1-163-031-11 1-124-589-11	CERAMIC CHIP 0.01MF ELECT 47MF	20%	50V 16V



NTSC3.58 0.8Vp - p (H)

10.4Vp - p (V)

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NTSC3.58 3.2Vp - p (H) NTSC4.43 3.2Vp - p (H) S (Y/C) 3.2Vp - p (H)

NTSC3.58 3.4Vp - p (H) NTSC4.43 3.4Vp - p (H) S (Y/C) 3.4Vp - p (H)

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NTSC4.43 0.6Vp - p (H)

3.5Vp - p (V)

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COMPONENT 3Vp - p (H)

RGB 2.7Vp - p (H)

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S (Y/C) 0.8Vp - p (H)

3.5∨p - p (H)

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RGB 2.7Vp - p (H)

COMPONENT 3Vp - p (H)

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	REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION		REMARK		MARK   REF.NO	PART NO.	DESCRIPTION	REMARK	REF.NO. PART
	C198 1-124-589 C199 1-124-589	-11 ELECT 47MF 20 -11 ELECT 47MF 20 -11 ELECT 47MF 20	7 16V 7 16V 7 16V 7 16V	C261 1-137-193-1 C262 1-124-465-0 C264 1-163-123-0 C265 1-163-129-0 C266 1-126-320-1 C267 1-126-320-1	DELECT 0.47MF CERAMIC CHIP 180PF CERAMIC CHIP 330PF ELECT 10MF	5% 20% 5% 5% 20% 20%	50V 50V 50V 50V 16V	CFM101 1-464-880-11 FILTER BLOCK, COM (CFB-2) <connector>  CN101 1-506-480-11 PIN, CONNECTOR 15P  CN102 *1-564-506-11 PLUG, CONNECTOR 3P</connector>	D151 D152 D153 D154 D155 D156 D156	8-719-404-46 8-719-404-46 8-719-977-20 8-719-404-46 8-719-404-46 8-719-901-83	DIODE MA110 DIODE DTZ8.2B DIODE MA110 DIODE MA110 DIODE MA110		1C125 8-759 1C126 8-759 1C127 8-759 1C128 8-759 1C129 8-759
	C203 1-124-589 C204 1-124-589 C205 1-163-101 C206 1-164-298 C207 1-164-298 C208 1-163-101	-11 ELECT	7 16V 7 16V 50V 7 25V 7 25V 7 25V 7 25V	C270 1-164-004-1 C271 1-163-809-1 C272 1-163-129-0 C273 1-163-129-0 C274 1-124-477-1	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.047MF CERAMIC CHIP 330PF CERAMIC CHIP 330PF	20% 10% 10% 10% 5% 5% 5%	16V 25V 25V 25V 50V 50V 50V 50V	CN103 *1-565-503-11 CONNECTOR, BOARD TO BOARD 12P CN104 1-506-477-11 PIN, CONNECTOR 12P CN105 *1-564-509-11 PLUG, CONNECTOR 6P CN106 1-506-473-11 PIN, CONNECTOR 8P CN107 1-506-478-11 PIN, CONNECTOR 13P CN108 *1-564-506-11 PLUG, CONNECTOR 3P	D158 D159 D160 D161 D162 D170 D185	8-719-901-83 8-719-901-83 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-104-34	DIODE 1SS83 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE IS2836		JR105 1-216 JR110 1-216 JR133 1-216 JR138 1-216 JR178 1-216
	C211 1-124-589 C212 1-124-589 C213 1-124-589	11   ELECT   47MF   20	16 V 12 16 V 12 16 V 12 16 V	: C277 1-163-097-0	CERAMIC CHIP 15PF CERAMIC CHIP 0.047MF  BLECT 10MF CERAMIC CHIP 100PF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	5% 5% 10% 20% 5%	50V 25V 16V 50V 50V 50V 50V	<pre></pre>	D186 D187 D188 D191 D285 D289 D341 D342	8-719-400-18 8-719-800-76 8-719-800-76 8-719-104-34 8-719-404-46 8-719-404-46	DIODE MA152WK DIODE 1SS226 DIODE 1SS226  DIODE 1S2836 DIODE MA110 DIODE MA110		L101 1-410 L102 1-410 L103 1-412 L104 1-412 L105 1-412 L106 1-410 L107 1-410
	C218 1-164-298 C219 1-163-009 C220 1-163-031 C221 1-124-903 C222 1-163-093 C223 1-163-031	B-11 CERAMIC CHIP 0.15MF 10 D-11 CERAMIC CHIP 0.001MF 10 L-11 CERAMIC CHIP 0.01MF 20 B-11 ELECT 1MF 20 B-00 CERAMIC CHIP 10PF 52 L-11 CERAMIC CHIP 0.01MF	25 V 25 V 50 V 50 V 50 V	C299 1-163-031-1 C300 1-126-157-1 C301 1-163-809-1 C302 1-124-589-1 C303 1-126-157-1 C304 1-163-125-0 C305 1-124-257-0 C306 1-163-115-0	L ELECT 10MF L CERAMIC CHIP 0.047MF L ELECT 47MF L ELECT 10MF	20% 10% 20% 20% 5% 20% 5%	50V 16V 25V 16V 16V 50V 50V 50V	CV102 1-141-418-11 CAP, ADJ <diode>  D103 8-719-404-46 DIODE MA110 D104 8-719-404-46 DIODE MA110 D105 8-719-404-46 DIODE MA110 D106 8-719-404-46 DIODE MA110 D107 8-719-404-46 DIODE MA110 D107 8-719-404-46 DIODE MA110</diode>	D343 D344 D345 D346 D347 D348 D349 D350	8-719-800-76 8-719-105-XX 8-719-901-83 8-719-901-83 8-719-901-83 8-719-800-76 8-719-800-76	DIODE 1SS226 DIODE RD6.2M-B1 DIODE 1SS83 DIODE 1SS83	·	L112 1-408 L113 1-410 L114 1-410 L115 1-410 L116 1-412 L117 1-412 L118 1-412 L250 1-410
	C228 1-163-986 C229 1-163-031 C230 1-163-038 C231 1-163-986 C232 1-163-031 C233 1-163-031 C234 1-163-038	-11	25V 25V 50V 25V 25V 25V 50V 50V 25V 25V	C308 1-164-004-1 C309 1-164-004-1 C310 1-164-004-1 C312 1-163-031-1 C313 1-163-115-C C314 1-126-157-1 C315 1-164-299-1 C316 1-126-157-1	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.01MF CERAMIC CHIP 82PF ELECT 10MF CERAMIC CHIP 0.22MF	10% 10% 10% 5% 20%	25V 25V 25V 50V 50V 16V 25V 16V	D108 8-719-404-46 D10DE MA110 D109 8-719-404-46 D10DE MA110 D110 8-719-404-46 D10DE MA110 D111 8-719-404-46 D10DE MA110 D112 8-719-404-46 D10DE MA110 D113 8-719-404-46 D10DE MA110 D117 8-719-404-46 D10DE MA110 D120 8-719-404-46 D10DE MA110	D390 D393 DL101	8-719-800-76 8-719-404-46 <dei 1-415-632-11</dei 	DIODE 1SS226 DIODE MA110 LAY LINE> DELAY LINE, Y DELAY LINE, Y		1.251 1-41( 1.252 1-41( 1.300 1-41( 1.300 1-41( 1.300 8-72( 1.02 8-72( 1.03 8-72( 1.04 8-72(
	C236 1-163-031 C237 1-163-031 C238 1-164-299 C239 1-163-809 C240 1-163-809 C241 1-163-809 C242 1-163-113 C243 1-163-031	1-11 CERAMIC CHIP 0.01MF 1-11 CERAMIC CHIP 0.01MF 9-11 CERAMIC CHIP 0.22MF 10 9-11 CERAMIC CHIP 0.047MF 10 9-11 CERAMIC CHIP 0.047MF 10 9-11 CERAMIC CHIP 0.047MF 10 1-10 CERAMIC CHIP 0.01MF 55	50V 50V 25V 07 25V 07 25V 07 25V 07 25V 07 50V	C317 1-163-031-1 C318 1-163-095-0 C319 1-163-095-0 C320 1-163-095-0 C321 1-163-121-0 C322 1-163-121-0 C324 1-163-119-0 C340 1-163-205-0	CERAMIC CHIP 0.01MF CERAMIC CHIP 12PF CERAMIC CHIP 12PF CERAMIC CHIP 12PF CERAMIC CHIP 150PF CERAMIC CHIP 150PF CERAMIC CHIP 150PF CERAMIC CHIP 120PF CERAMIC CHIP 0.001MF	5% 5% 5% 5% 5% 5%	50V 50V 50V 50V 50V 50V 50V	D121 8-719-404-46 DIODE MA110 D122 8-719-404-46 DIODE MA110  D123 8-719-404-46 DIODE MA110 D125 8-719-404-46 DIODE MA110 D126 8-719-404-46 DIODE MA110 D127 8-719-404-46 DIODE MA110 D128 8-719-404-46 DIODE MA120 D129 8-719-400-18 DIODE MA152WK  D129 8-719-404-46 DIODE MA110 D130 8-719-800-76 DIODE ISS226	IC102 IC103 IC104 IC105	8-759-048-09 8-759-501-21 8-759-501-21 8-759-501-21 8-759-048-09	IC MM1148XF IC MM1149XF IC MM1149XF IC MM1149XF IC MM1149XF		Q105 8-725 Q106 8-725 Q107 8-725 Q108 8-725 Q109 8-725 Q112 8-725 Q113 8-725
	C244 1-163-102 C245 1-163-105 C246 1-163-809 C247 1-163-809 C248 1-163-809 C249 1-126-101 C250 1-163-017 C251 1-110-364	3-00 CERAMIC CHIP 27PF 55 5-00 CERAMIC CHIP 33PF 55 9-11 CERAMIC CHIP 0.047MF 10 9-11 CERAMIC CHIP 0.047MF 10 1-11 ELECT 100MF 20 7-00 CERAMIC CHIP 0.0047MF 10 4-11 MYLAR 0.1MF 10	2 50V 2 50V 02 25V 02 25V 02 25V 03 16V 04 50V 02 200V	C345 1-163-109-0 C346 1-163-109-0 C347 1-163-109-0 C1293 1-163-119-0 C1294 1-163-119-0 C1295 1-163-119-0 C1296 1-163-115-0 C1297 1-163-103-0	O CERAMIC CHIP 9PF O CERAMIC CHIP 47PF O CERAMIC CHIP 47PF O CERAMIC CHIP 120PF O CERAMIC CHIP 27PF	0.25 5% 5% 5% 5% 5% 5% 5%	50V 50V 50V 50V 50V 50V 50V	D130 8-719-800-76 D10DE 1SS226 D131 8-719-800-76 D10DE 1SS226 D132 8-719-800-76 D10DE 1SS226 D133 8-719-404-46 D10DE MAI10 D134 8-719-404-46 D10DE MAI10 D135 8-719-404-46 D10DE MAI10 D136 8-719-404-46 D10DE MAI10 D137 8-719-404-46 D10DE MAI10 D138 8-719-404-46 D10DE MAI10 D138 8-719-404-46 D10DE MAI10	IC109 IC110 IC111 IC112 IC113 IC114 IC115	8-759-509-37 8-759-509-17 8-759-509-17 8-759-924-12 8-759-631-08	IC XRU4070BF IC XRU4053BF IC LM7805CT IC M51279FP IC XRU4052BF IC XRU4052BF		Q114 8-725 Q115 8-725 Q116 8-725 Q117 8-725 Q118 8-725 Q119 8-725 Q120 8-725 Q121 8-725 Q122 8-725
	C253 1-124-477 C254 1-163-031 C255 1-124-477 C256 1-163-129 C257 1-163-129 C258 1-163-129 C259 1-163-031	7-11 ELECT 47MF 2 1-11 CERAMIC CHIP 0.01MF 7-11 ELECT 47MF 2 9-00 CERAMIC CHIP 330PF 5 9-00 CERAMIC CHIP 330PF 5 9-00 CERAMIC CHIP 330PF 5 1-11 CERAMIC CHIP 0.01MF		C1299 1-163-093-0 C1300 1-126-160- C1301 1-126-160- C1302 1-126-160- C1303 1-126-160-	1 ELECT 1MF 1 ELECT 1MF	5% 20% 20% 20% 20%	50V 50V 50V 50V 50V 50V	D139 8-719-404-46 DIODE MA110 D144 8-719-404-46 DIODE MA110 D145 8-719-404-46 DIODE MA110 D146 8-719-404-46 DIODE MA110 D147 8-719-404-46 DIODE MA110 D148 8-719-404-46 DIODE MA110 D149 8-719-404-46 DIODE MA110 D150 8-719-404-46 DIODE MA110	IC117 IC118 IC119 IC120 IC121 IC122 IC123	8-759-711-32	IC NJM2245M IC NJM2245M IC NJM2245M IC XRU4066BF IC XRU4053BF IC LM358D IC LM358D		Q123 8-725 Q124 8-725 Q125 8-725 Q126 8-725 Q127 8-725 Q128 8-725 Q129 8-725 Q130 8-725

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EMARK	REF.NO. PART NO.		REMARK   REF. NO. PART NO.	DESCRIPTION	REMARK	REF.NO. P		DESCRIPTION			. PART NO.	DESCRIPTION	REMARK
V	CFM101 1-464-880-11	FILTER BLOCK, COM (CFB-2)	D151 8-719-404-4 D152 8-719-404-4	6 DIODE MA110 6 DIODE MA110		IC125 8 IC126 8	3-759-509-05 3-759-509-17	IC XRU4066BF IC XRU4053BF		Q131 Q132	8-729-422-27 8-729-216-22	TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G	
V V V	CN101 1-506-480-11	PLUG CONNECTOR 3P	D154 8-719-404-4 D155 8-719-404-4 D156 8-719-404-4	O DIODE DTZ8.2B 6 DIODE MA110 6 DIODE MA110 6 DIODE MA110 3 DIODE ISS83		IC128 8 IC129 8	3-759-998-98 3-759-998-98 3-759-998-98 <jum< td=""><td>IC LM358D</td><td></td><td>Q133 Q134 Q135 Q136 Q137</td><td>8-729-901-01 8-729-422-27 8-729-907-26</td><td>TRANSISTOR 2SD601A-Q TRANSISTOR DTC144EK TRANSISTOR 2SD601A-Q TRANSISTOR IMX1 TRANSISTOR IMX1</td><td></td></jum<>	IC LM358D		Q133 Q134 Q135 Q136 Q137	8-729-901-01 8-729-422-27 8-729-907-26	TRANSISTOR 2SD601A-Q TRANSISTOR DTC144EK TRANSISTOR 2SD601A-Q TRANSISTOR IMX1 TRANSISTOR IMX1	
V V V	CN104 1-506-477-11 CN105 *1-564-509-11 CN106 1-506-473-11 CN107 1-506-478-11 CN108 *1-564-506-11	PIN, CONNECTOR 8P PIN, CONNECTOR 13P	D159 8-719-901-8 D160 8-719-404-4 D161 8-719-404-4	3 DIODE ISS83 3 DIODE ISS83 6 DIODE MA110 6 DIODE MA110 6 DIODE MA110		JR110 1 JR133 1 JR138 1	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	Q138 Q139 Q140 Q141 Q142	8-729-216-22 8-729-422-27 8-729-422-27	TRANSISTOR IMX1 TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q	
v v v		AP MODULE>	D185 8-719-104-3 D186 8-719-400-1 D187 8-719-800-7	6 DIODE MA110 4 DIODE 1S2836 8 DIODE MA152WK 6 DIODE 1SS226 6 DIODE 1SS226		L102 1	<01 1-410-470-11 1-410-090-41 1-412-002-31	INDUCTOR 10UH		Q143 Q144 Q145 Q146 Q147	8-729-422-27 8-729-422-27 8-729-255-12	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SC2551-0 TRANSISTOR 2SC2551-0	
v v v		IMMER>	D285 8-719-404-4 D289 8-719-404-4 D341 8-719-404-4	4 DIODE 1S2836 6 DIODE MA110 6 DIODE MA110 6 DIODE MA110 4 DIODE 1S2836		L104 1 L105 1 L106 1 L107 1	1-412-002-31	INDUCTOR CHIP 4.7UH INDUCTOR CHIP 4.7UH INDUCTOR 10UH INDUCTOR 10UH		Q148 Q149 Q150 Q151 Q152	8-729-200-17 8-729-422-27 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-0 TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-0	
V V V	CD103 8-719-404-46 D104 8-719-404-46	DDE>	D344	6 DIODE 1SS226 X DIODE RD6. 2M-B1 3 DIODE 1SS83 3 DIODE 1SS83 3 DIODE 1SS83		L113 1 L114 1 L115 1 L116 1	1-410-947-31 1-410-947-31 1-410-947-31 1-412-011-31	INDUCTOR CHIP 33UH INDUCTOR CHIP 33UH INDUCTOR CHIP 33UH INDUCTOR CHIP 27UH INDUCTOR CHIP 27UH		Q153 Q154 Q155 Q157 Q158	8-729-216-22 8-729-200-17 8-729-326-11	TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-0 TRANSISTOR 2SC2611 TRANSISTOR 2SC2611	
V V V V	D105 8-719-404-46 D106 8-719-404-46 D107 8-719-404-46 D108 8-719-404-46 D109 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110	D349 8-719-800-7	6 DIODE 1SS226 6 DIODE 1SS226 6 DIODE 1SS226 6 DIODE 1SS226 6 DIODE MA110		L118 1 L250 1 L251 1 L252 1	1-412-011-31 1-410-997-31	INDUCTOR CHIP 27UH INDUCTOR CHIP 2.2UH INDUCTOR CHIP 3.3UH INDUCTOR 47UH		Q159 Q160 Q161 Q164 Q165	8-729-422-27 8-729-216-22 8-729-901-01	TRANSISTOR 2SC2611 TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G	
V V V	D110 8-719-404-46 D111 8-719-404-46 D112 8-719-404-46	DIODE MA110 DIODE MA110	DL101 1-415-632-1	ELAY LINE>				NSISTOR>		Q166 Q167 Q168 Q170	8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q	
V V V V	D113 8-719-404-46 D117 8-719-404-46 D120 8-719-404-46 D121 8-719-404-46 D122 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110	DL102 1-415-633-1 <i< td=""><td>1 DELAY LINE, Y C&gt; 9 IC MM1148XF</td><td></td><td>Q102 8 Q103 8 Q104 8 Q105 8</td><td>8-729-422-27 8-729-422-27 8-729-422-27 8-729-422-27</td><td>TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q</td><td></td><td>Q171</td><td>8-729-422-27 8-729-422-27</td><td>TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G</td><td>· · · · · · · · · · · · · · · · · · ·</td></i<>	1 DELAY LINE, Y C> 9 IC MM1148XF		Q102 8 Q103 8 Q104 8 Q105 8	8-729-422-27 8-729-422-27 8-729-422-27 8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q		Q171	8-729-422-27 8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	· · · · · · · · · · · · · · · · · · ·
V V V	D123 8-719-404-46 D125 8-719-404-46 D126 8-719-404-46 D127 8-719-404-46 D128 8-719-400-18	DIODE MA110 DIODE MA110	IC102	11 IC MM1149XF 11 IC MM1149XF 11 IC MM1149XF 19 IC MM1148XF		Q107 8 Q108 8 Q109 8	8-729-422-27 8-729-216-22 8-729-901-01	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR DTC144EK TRANSISTOR 2SD601A-Q		Q177 Q178 Q179	8-729-422-27 8-729-422-27	TRANSISTOR 2SA1162-G  TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR DTC144EK TRANSISTOR IMX1	
V V V V	D131 8-719-800-76	DIODE 1SS226 DIODE 1SS226 DIODE 1SS226	IC106 8-759-009-5 IC107 8-759-509-5 IC108 8-759-509-5 IC109 8-759-509-3 IC110 8-759-509-1	7		Q115 8 Q116 8	8-729-422-27 8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G		Q189 Q190 Q191 Q192 Q193	8-729-216-22 8-729-422-27	TRANSISTOR 2SA1162-G  TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q	
V V V V	D134 8-719-404-46 D135 8-719-404-46 D136 8-719-404-46 D137 8-719-404-46 D138 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110	IC111	2 IC LM7805CT 8 IC M51279FP 3 IC XRU4052BF 3 IC XRU4052BF		0120 8	8-729-216-22	TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G		Q194 Q195 Q196 Q197 Q198	8-729-216-22 8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
V V V	D139 8-719-404-46 D144 8-719-404-46 D145 8-719-404-46 D146 8-719-404-46 D147 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110	IC116 8-759-509-0 IC117 8-759-711-3 IC118 8-759-711-3 IC119 8-759-711-3 IC120 8-759-509-0	2 IC NJM2245M 2 IC NJM2245M 2 IC NJM2245M		Q123 8 Q124 8 Q125 8 Q126 8	8-729-422-27 8-729-216-22 8-729-422-27 8-729-901-01	TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G		Q199 Q200 Q201 Q202 Q203	8-729-216-22 8-729-901-06 8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR DTA144EK  TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
• <b>V</b>	D148 8-719-404-46 D149 8-719-404-46 D150 8-719-404-46	DIODE MA110 DIODE MA110	IC121 8-759-509-1 IC122 8-759-998-9 IC123 8-759-998-9 IC124 8-752-052-6	8 IC LM358D 8 IC LM358D		0128 8 0129 8	8-729-216-22 8-729-901-01	TRANSISTOR 2SA1162-G TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G		Q204 Q205	8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	

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REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				ŘĚMÁŘK
Q208 Q209 Q210 Q211 Q212	8-729-216-22 8-729-255-12 8-729-255-12 8-729-255-12 8-729-109-44	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2551- C2551- C2551- K94	0 0 0			R167 R168 R169 R170 R171	1-216-635-11 1-216-103-00 1-216-033-00 1-216-089-00 1-216-053-00	METAL GLAZE	220 180K 220 47K 1.5K	0.50% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q299		TRANSISTOR 2S	D601A-	Q			R172 R173	1-216-043-00 1-216-093-00	METAL GLAZE METAL GLAZE	560 68K		1/10W 1/10W	
R101		ISTOR> METAL GLAZE	47K	5%	1/10W		R174 R175 R176	1-216-069-00 1-216-057-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 2.2K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R102 R103 R104 R105	1-216-025-00 1-216-091-00 1-216-061-00 1-216-025-00	METAL GLAZE	47K 100 56K 3.3K 100	5%	1/10W 1/10W 1/10W 1/10W		R177 R178 R179 R180	1-216-073-00 1-216-089-00 1-216-081-00 1-216-679-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	10K 47K 22K 15K	5% 5% 5% 0.50%		
R106 R107 R108	1-216-065-00 1-216-025-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 100 470K 4.7K 1K	5% 5% 5%	1/10W 1/10W 1/10W		R181 R182	1-216-071-00 1-216-683-11	METAL CHIP	8.2K 22K 47K	5% 0.50%	1/10W	
R109 R110	1-216-065-00 1-216-049-00	METAL GLAZE METAL GLAZE			1/10W 1/10W		R183 R184 R185	1-216-691-11 1-216-699-11 1-216-073-00	METAL CHIP METAL CHIP METAL GLAZE	100K 10K	0.50% 0.50% 5% 5%	1/10W 1/10W	
R111 R112 R113		METAL GLAZE METAL GLAZE CARBON	3.9K 1K 47 680 3.3K	5% 5% 5%	1/10W 1/10W 1/4W	F	R186 R187	1-216-113-00 1-216-073-00	METAL GLAZE	470K 10K 470K		1/10W	
R114 R115	1-216-045-00 1-216-061-00				1/10W 1/10W	<b>F</b>	R188 R189 R190	1-216-113-00 1-216-103-00 1-216-107-00	METAL GLAZE METAL GLAZE	180K 270K	5% 5% 5%	1/10W 1/10W 1/10W	
R117 R118 R119		METAL GLAZE METAL GLAZE METAL CHIP	10K 100 680	5% 5% 0.50%	1/10W 1/10W 1/10W		1191	1-216-097-00 1-216-103-00	METAL GLAZE	100K 180K		1/10W	
R120 R121	1-216-647-11 1-216-025-00	METAL CHIP METAL GLAZE	680 100	0.50% 5%			R192 R193 R194 R195	1-216-105-00 1-216-089-00 1-216-113-00 1-216-073-00	METAL GLAZE METAL GLAZE	180K 220K 47K 470K 10K	5% 5%	1/10W 1/10W 1/10W	•
R122 R123 R124	1-216-083-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	27K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R196	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W 1/10W	
R125 R126	1-216-083-00 1-216-093-00	METAL GLAZE METAL GLAZE	27K 68K		1/10W 1/10W		R198 R199 R200	1-216-049-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE	1K 4.7K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R127 R128 R129	1-216-037-00 1-216-083-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE	330 27K 5.6K	5% 5% 5%	1/10W 1/10W 1/10W		R201 R202	1-216-043-00	METAL GLAZE	560 220		1/10W	
R130 R131	1-216-089-00	METAL GLAZE METAL GLAZE	100K 47K	5% 5% 5%	1/10W 1/10W		R203 R204 R205 R206	1-216-045-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE	680 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R132 R133 R134	1-216-079-00 1-216-645-11	METAL CHIP	560	5% 5% 0.50%	1/10W		R206 R207 R208	1-216-043-00	METAL GLAZE	560 680	5%	1/10W	
R135 R136	1-216-645-11 1-216-091-00	METAL GLAZE	56K	0.50% 5%	1/10W		R210	1-216-043-00 1-216-033-00	METAL CHIP METAL GLAZE METAL GLAZE	560 220	0.50% 5% 5% 5%	1/10W 1/10W	
R137 R138 R139	1-216-045-00 1-216-657-11 1-216-079-00	METAL GLAZE METAL CHIP METAL GLAZE	680 1.8K 18K	5%	1/10W 1/10W 1/10W		R211	1-216-099-00	METAL GLAZE	120K		1/10W	
R140 R141	1-216-653-11 1-216-063-00	METAL CHIP METAL GLAZE	1.2K 3.9K	5%	1/10W 1/10W 1/10W		R213 R214 R215	1-216-043-00 1-216-043-00 1-216-127-11	METAL GLAZE METAL GLAZE METAL GLAZE	560 560 1.8M	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R142 R143 R145 R146	1-216-073-00 1-216-085-00 1-216-065-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 33K 4.7K 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R216 R217 R218	1-216-043-00 1-216-033-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	560 220 0		1/10W 1/10W 1/10W	
R147	1-216-089-00	METAL GLAZE METAL CHIP	47K	5% 0.50%	1/10W		R219 R220 R221	1-216-043-00 1-216-043-00 1-216-035-00	METAL GLAZE METAL GLAZE METAL GLAZE	560 560 270	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R148 R155 R157 R158	1-216-671-11 1-216-655-11 1-216-679-11 1-216-677-11	METAL CHIP METAL CHIP METAL CHIP		0.50%			R222 R223	1-216-033-00 1-216-033-00 1-216-073-00	METAL GLAZE METAL GLAZE	220 10K		1/10W 1/10W 1/10W	
R160 R161	1-216-065-00	METAL GLAZE	4.7K	5% 5%	1/10W 1/10W		R224 R225 R226	1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 82K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R163 R164 R165	1-216-073-00 1-216-677-11 1-216-107-00	METAL GLAZE METAL CHIP METAL GLAZE	10K 12K 270K	5%	1/10W 1/10W 1/10W 1/10W		R227 R228	1-216-035-00 1-216-065-00	METAL GLAZE METAL GLAZE	270 4.7K	5% 5% 5%	1/10W 1/10W 1/10W	
R166	1-216-681-11	METAL CHIP	18K	ó. 50%	1/10W		R229	1-216-113-00	METAL GLAZE	470K	5%	1/10W	



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R231 R232 R233	1-216-081-00 1-216-113-00 1-216-105-00 1-216-073-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 470K 220K 10K 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R301 R302 R303 R304 R305	1-216-065-00 1-216-113-00 1-216-065-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 470K 4.7K 1K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R236 R237 R238	1-216-041-00 1-216-077-00 1-216-025-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 15K 100 4.7K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R306 R307 R308 R309 R310	1-216-089-00 1-216-033-00 1-216-089-00 1-216-089-00 1-216-033-00	METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE	47K 220 47K 47K 220	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R241 R242 R243 R244	1-216-033-00 1-216-073-00 1-216-051-00 1-216-113-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 10K 1.2K 470K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R311 R312 R313 R314 R315	1-216-089-00 1-216-089-00 1-216-033-00 1-216-089-00 1-216-113-00	METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE	47K 47K 220 47K 470K	5% 5%%%%% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R246 R247 R248 R249	1-216-679-11 1-216-103-00 1-216-093-00 1-216-095-00 1-216-109-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 180K 68K 82K 330K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R316 R317 R318 R319 R320	1-216-105-00 1-216-109-00 1-216-105-00 1-216-099-00 1-216-099-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220K 330K 220K 120K 120K	5 % % % % % % % % % % % % % % % % % % %	1/10W 1/10W 1/10W 1/10W 1/10W	
R251 R252 R253 R254	1-216-101-00 1-216-105-00 1-216-101-00 1-216-101-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150K 220K 150K 150K 220		1/10W 1/10W 1/10W 1/10W 1/10W		R321 R322 R323 R324 R325	1-216-043-00 1-216-109-00 1-216-109-00 1-216-109-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330K 330K 330K 100K	5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R256 R258 R259 R260	1-216-061-00 1-216-107-00 1-216-041-00 1-216-073-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 270K 470 10K 100	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R326 R328 R329 R330 R331	1-216-113-00 1-216-073-00 1-216-107-00 1-216-105-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 10K 270K 220K 100	5% 5%% 5%% 5%% 5%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R262 R263 R264 R265	1-216-035-00 1-216-097-00 1-216-029-00 1-216-065-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE	270 100K 150 4.7K 5.6K		1/10W 1/10W 1/10W 1/10W 1/10W		R332 R333 R334 R335 R336 R337	1-216-097-00 1-216-097-00 1-216-025-00 1-216-099-00 1-216-095-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 100K 100 120K 82K	5% 5%% 5%% 5%% 5%% 5%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R267 R268 R269 R270	1-216-073-00 1-216-073-00 1-216-081-00 1-216-103-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 22K 180K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R338 R339 R340 R341	1-216-105-00 1-216-025-00 1-216-099-00 1-216-095-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220K 100 120K 82K 220K	5% 5%% 5555555555	1/10W 1/10W 1/10W 1/10W 1/10W	
R272 R273 R275 R276	1-216-113-00 1-216-081-00 1-216-037-00	METAL GLAZE METAL GLAZE	100 180K 470K 22K 330	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R342 R343 R344 R345 R346	1-216-047-00 1-216-053-00 1-216-664-11 1-216-661-11 1-216-105-00	METAL CHIP METAL CHIP METAL GLAZE	820 1.5K 3.6K 2.7K 220K	5% 0.50%	1/10W 1/10W	
R278 R280 R281 R282	1-216-049-00 1-216-059-00 1-216-061-00 1-216-061-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 2.7K 3.3K 3.3K 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R348 R349 R350 R351 R352	1-216-061-00 1-216-650-11 1-216-653-11 1-216-653-11 1-216-653-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	3.3K 910 1.2K 910 1.2K	0.50% 0.50% 0.50% 0.50%	1/10W 1/10W	
R284 R286 R287 R288	1-216-049-00 1-216-059-00 1-216-061-00 1-216-061-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 2.7K 3.3K 3.3K 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R353 R354 R355 R356 R357	1-216-650-11 1-216-653-11 1-216-113-00 1-216-113-00 1-216-095-00	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	910 1.2K 470K 470K 82K		1/10W 1/10W 1/10W 1/10W 1/10W	
R290 1 R292 1 R293 1 R295 1	1-216-049-00 1-216-059-00 1-216-061-00 1-216-061-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 2.7K 3.3K 3.3K 2.2K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R358 R359 R360 R363 R364	1-216-113-00 1-216-081-00 1-216-089-00 1-216-069-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 22K 47K 6.8K 10K	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R297 R298	1-216-659-11 1-216-659-11 1-216-065-00 1-216-065-00	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE	2.2K 2.2K 4.7K 4.7K	0.50% 0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W		R365 R366 R367	1-216-073-00 1-216-244-00 1-216-244-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 82K 82K	5% 5% 5%	1/10W 1/8W 1/8W	

В

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R368 R369 R370 R371 R372	1-216-055-00 1-216-248-00 1-216-115-00 1-216-067-00 1-216-115-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 120K 560K 5.6K 560K	5% 5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/10W		R1042 R1043	1-216-025-00 1-216-047-00 1-216-057-00 1-216-061-00 1-216-125-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 820 2.2K 3.3K 1.5M	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R374 R375 R376 R378 R379	1-216-115-00 1-216-683-11 1-216-663-11 1-216-025-00 1-216-641-11	METAL GLAZE METAL CHIP METAL CHIP METAL GLAZE METAL CHIP	22K 3.3K 100 390	5% 0.50% 0.50% 5% 0.50%	1/10W 1/10W 1/10W 1/10W		R1046 R1047 R1048 R1049 R1050	1-216-689-11 1-216-065-00 1-216-049-00 1-216-085-00 1-216-059-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 1K 33K 2.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R380 R381 R382 R383 R384	1-216-668-11 1-216-089-00 1-216-025-00 1-216-641-11 1-216-668-11	METAL CHIP METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP	47K 100 390 5.1K	0.50% 5% 5% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W		R1053 R1054 R1055 R1056	1-216-105-00 1-216-091-00 1-216-093-00 1-216-097-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220K 56K 68K 100K 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R385 R386 R387 R388 R389	1-216-117-00 1-216-025-00 1-216-641-11 1-216-668-11 1-216-089-00	METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP METAL GLAZE	390 5.1K 47K	5% 0.50% 0.50% 5%	1/10W 1/10W 1/10W		R1061	1-216-065-00 1-216-109-00 1-216-109-00 1-216-109-00 1-216-109-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 330K 330K 330K 330K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/10W 1/10W 1/10W 1/10W 1/10W	
R390 R391 R392 R393 R394	1-216-105-00 1-216-081-00 1-216-113-00 1-216-085-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220K 22K 470K 33K 470K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1063 R1064 R1065 R1066	1-216-103-00 1-216-103-00 1-216-103-00 1-216-103-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	180K 180K 180K 180K 10K	5% 5%% 5%% 5%% 5%% 5%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R397 R398 R399 R1001 R1002	1-249-437-11 1-249-434-11 1-216-073-00 1-216-073-00 1-216-047-00	CARBON CARBON METAL GLAZE METAL GLAZE METAL GLAZE	10K 820	5% 5% 5% 5%	1/4W 1/4W 1/10W 1/10W 1/10W	P	R1068 R1069 R1070 R1071	1-216-073-00 1-216-049-00 1-216-133-00 1-216-085-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 3.3M 33K 470K	5 % % % % % % % % % % % % % % % % % % %	1/10W 1/10W 1/10W 1/10W 1/10W	
R1007	1-216-055-00 1-216-061-00 1-216-047+00 1-216-055-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 3.3K 820 1.8K 3.3K		1/10W 1/10W 1/10W 1/10W 1/10W		R1073 R1075 R1076 R1077	1-216-099-00 1-216-131-11 1-216-065-00 1-216-101-00 1-216-103-00	METAL GLAZE METAL GLAZE METAL GLAZE	120K 2.7M 4.7K 150K 180K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/10W 1/10W 1/10W 1/10W 1/10W	
R1010 R1011 R1012	1-216-047-00 1-216-053-00 1-216-061-00 1-216-033-00 1-216-051-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	820 1.5K 3.3K 220 1.2K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1080 R1081 R1082 R1083	1-216-131-11 1-216-097-00 1-216-097-00 1-216-105-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.7M 100K 100K 220K 4.7K 3.9K		1/10W 1/10W 1/10W 1/10W 1/10W	
R1014 R1015 R1016	1-216-051-00 1-216-246-00 1-216-033-00 1-216-089-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.2K 100K 220 47K 680	5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/10W		1	1-216-063-00 1-216-073-00 1-216-121-00 1-216-047-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5%% 5%% 5%% 5%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1018 R1019 R1020 R1021 R1022	1-216-043-00 1-216-033-00 1-216-089-00 1-216-045-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 220 47K 680 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1091 R1092 R1093 R1094 R1095	1-216-049-00 1-216-049-00 1-216-121-00 1-216-075-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1M 12K 12K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1023 R1024 R1025 R1026 R1027	1-216-073-00 1-216-025-00 1-216-033-00 1-216-061-00 1-216-101-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 100 220 3.3K 150K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1096 R1200 R1201 R1207 R1208	1-216-075-00 1-216-699-11 1-218-754-11 1-216-061-00 1-216-065-00	METAL GLAZE  METAL CHIP  METAL CHIP  METAL GLAZE  METAL GLAZE	12K 100K 120K 3.3K 4.7K	0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1028 R1029 R1030 R1031 R1032	1-216-033-00 1-216-061-00 1-216-089-00 1-216-033-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 3.3K 47K 220 3.3K	5%%%%%% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W		R1220 R1221 R1222 R1223 R1225	1-216-055-00 1-216-055-00 1-216-055-00 1-216-689-11 1-215-876-00	METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL OXIDE	1.8K 1.8K 1.8K 39K 15K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	F
R1033 R1035 R1036 R1038	1-216-081-00 1-216-073-00 1-216-089-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 10K 47K 22K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R1226 R1227 R1228	1-215-876-00 1-215-876-00 1-249-421-11	METAL OXIDE METAL OXIDE CARBON	15K 15K 2.2K	5% 5% 5%	1W 1W 1/4W	F

# PVM-9041QM/9044QM





REF.NO. PART NO.	DESCRIPTION		REMARK		PART NO.	DESCRIPTION			REMARK
R1229 1-249-421-11 R1230 1-249-421-11 R1231 1-216-029-00 R1232 1-216-029-00 R1233 1-216-029-00	METAL GLAZE 1 METAL GLAZE 1	2.2K 5% 2.2K 5% 150 5% 150 5%	1/4W F 1/4W F 1/10W 1/10W 1/10W	R1349	1-216-073-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 10K 5% 10K 5% 10K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1234 1-216-029-00 R1235 1-216-029-00 R1236 1-216-029-00 R1237 1-249-419-11 R1238 1-249-419-11	METAL GLAZE 1 METAL GLAZE 1 CARBON 1	150 5% 150 5% 150 5% 1.5K 5%	1/10W 1/10W 1/10W 1/4W F 1/4W F	R1353 R1371 R1372 R1373	1-216-115-00 1-216-057-00 1-216-057-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560K 5% 2.2K 5% 2.2K 5% 2.2K 5%	1/10W 1/10W 1/10W 1/10W	
R1239 1-249-419-11 R1270 1-216-079-00 R1271 1-216-057-00 R1280 1-216-109-00 R1290 1-216-071-00	METAL GLAZE 1 METAL GLAZE 2 METAL GLAZE 3	1.5K 5% 18K 5% 2.2K 5% 330K 5% 8.2K 5%	1/4W F 1/10W 1/10W 1/10W 1/10W	R1393		IABLE RESISTO		1/10W 1/10W	
R1291 1-216-081-00 R1294 1-216-069-00 R1295 1-216-109-00 R1296 1-216-095-00 R1297 1-216-071-00	METAL GLAZE 2 METAL GLAZE 6 METAL GLAZE 3 METAL GLAZE 8 METAL GLAZE 8	22K 5% 6.8K 5% 330K 5% 82K 5% 8.2K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	RV102			RMET 4.7K RBON 220 RBON 220		
R1298 1-216-071-00 R1299 1-216-071-00 R1300 1-216-089-00 R1301 1-216-065-00 R1302 1-216-113-00		8.2K 5% 8.2K 5% 47K 5% 4.7K 5% 4.7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	RV108	1-241-630-11	RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA	RBON 1K RBON 10K RMET 22K		
R1303 1-216-113-00 R1304 1-216-091-00 R1305 1-216-093-00 R1306 1-216-063-00 R1307 1-216-041-00	METAL GLAZE	470K 5% 56K 5% 68K 5% 3.9K 5% 470 5%	1/10W 1/10W 1/10W 1/10W 1/10W	RV111 RV112 RV113 RV114 RV115	1-241-630-11 1-238-019-11 1-238-019-11 1-238-019-11 1-241-631-11	RES, ADJ, CA	RBON 47K RBON 47K RBON 47K	•	
R1308 1-216-041-00 R1309 1-216-063-00 R1310 1-216-119-00 R1313 1-216-101-00 R1314 1-216-053-00		470 5% 3.9K 5% 820K 5% 150K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	RV118 RV119	1-241-631-11 1-241-631-11 1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA	RBON 22K RBON 22K RBON 22K		
R1315 1-216-077-00 R1320 1-216-083-00 R1321 1-216-093-00 R1322 1-216-037-00 R1323 1-216-057-00	METAL GLAZE 2 METAL GLAZE 2 METAL GLAZE 6	15K 5% 27K 5% 68K 5% 330 5% 2.2K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	RV123 RV124 RV125	1-241-631-11 1-241-628-11 1-241-627-11 1-241-627-11 1-241-631-11	RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA	RBON 2.2K RBON 1K RBON 1K		
R1324 1-216-121-00 R1325 1-216-085-00 R1326 1-216-065-00 R1327 1-216-099-00 R1328 1-216-099-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1M 5% 33K 5% 4.7K 5% 120K 5% 120K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	SEP101	<mod 1-808-654-11</mod 	MODULE			
R1329 1-216-093-00 R1330 1-216-063-00 R1331 1-216-051-00 R1332 1-216-057-00 R1333 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	68K 5% 3.9K 5% 1.2K 5% 2.2K 5% 2.2K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	X101 X102 ******	CRY 1-527-722-00 1-577-259-11	VIBRATOR, CR	YSTAL	******	*****
R1334 1-216-055-00 R1335 1-216-035-00 R1336 1-216-089-00 R1337 1-216-113-00 R1338 1-216-049-00	METAL GLAZE 2 METAL GLAZE 4 METAL GLAZE 4	1.8K 5% 270 5% 47K 5% 470K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		A-1346-018-A 1-533-189-11 *3-738-015-01	HOLDER, FUSE COVER, (DIA.	***** 6) CARBON	VR	
R1339 1-216-097-00 R1340 1-216-097-00 R1341 1-216-111-00 R1342 1-216-694-11 R1343 1-216-121-00	METAL GLAZE METAL GLAZE METAL CHIP	100K 5% 100K 5% 390K 5% 62K 0.50% 1M 5%	1/10W 1/10W 1/10W 1/10W 1/10W			ACITOR>			
R1344 1-216-073-00 R1345 1-216-055-00 R1346 1-216-047-00 R1347 1-216-073-00	METAL GLAZE METAL GLAZE	10K 5% 1.8K 5% 820 5% 10K 5%	1/10W 1/10W 1/10W 1/10W	C501 C502 C503 C504 C505	1-124-477-11 1-124-907-11 1-126-103-11 1-124-902-00 1-106-381-12	ELECT ELECT ELECT	47MF 10MF 470MF 0.47MF 0.039MF	20% 20% 20% 20% 10%	16V 50V 16V 50V 100V



REF.NO.	PART NO.	DESCRIPTION	·		REMARK	REF.NO. PART	NO.	DESCRIPTION			REMARK
C506 C507 C508 C509 C510	1-124-903-11 1-106-367-00 1-124-903-11 1-136-173-00 1-136-161-00	CIECT	1MF 0.01MF 1MF 0.47MF 0.047MF	20% 10% 20% 5%	50V 100V 50V 50V 50V	C841 1-163	4-902-00 4-902-00	CERAMIC CHIP		5% 5% 20% 20% 20%	50V 50V 50V 50V 25V
C511 C512 C513 C514 C515	1-124-903-11 1-106-375-12 1-106-375-12 1-106-371-00 1-124-925-11	MYLAR MYLAR MYLAR	1MF 0.022MF 0.022MF 0.015MF 2.2MF	20% 10% 10% 10% 20%	50V 100V 100V 100V 50V	C846 1-124 C847 1-124 C848 1-13	4-907-11 4-916-11 1-351-00 4-182-11	ELECT ELECT TANTALUM CERAMIC CHIP	10MF 22MF 4.7MF	20% 20% 10% 10% 20%	50V 50V 35V 50V 50V
C516 C517 C518 C519 C520	1-124-925-11 1-130-480-00 1-163-245-11 1-124-927-11 1-163-129-00	FILM CERAMIC CHIP ELECT	4.7MF	20% 5% 5% 20% 5%	50V 50V 50V 50V 50V	C1602 1-164 C1603 1-104 C1604 1-128 C1605 1-124 C1606 1-163	4-161-11 4-348-11 8-500-51 4-922-11	CERAMIC CHIP ELECT ELECT	0.0022MF 15MF 1000MF 1000MF	20% 20% 20% 10%	50 V 50 V 50 V 50 V 50 V 50 V
C521 C523 C524 C525 C526	1-124-907-11 1-106-363-00 1-102-116-00 1-102-820-00 1-102-973-00	MYLAR CERAMIC CERAMIC	10MF 0.0068MF 680PF 330PF 100PF	20% 10% 10% 5% 5%	50V 100V 50V 50V 50V	C1607 1-12	4-907-11 4-916-11 3-009-11 4-927-11	ELECT CERAMIC CHIP ELECT	10MF	20% 20% 10% 20% 20% 20%	50V 50V 50V 50V 50V 35V
C527 C528 C529 C530 C531	1-124-122-11 1-102-125-00 1-124-910-11 1-163-097-00 1-131-370-00	CERAMIC ELECT	100MF 0.0047MF 47MF 15PF 6.8MF	20% 10% 20% 5% 10%	50V 50V 50V 50V 16V	C1612 1-136 C1613 1-163 C1614 1-164 C1615 1-124	6-257-00 3-009-11 4-232-11 4-465-00	CERAMIC CHIP CERAMIC CHIP ELECT	0.0039MF 0.001MF 0.01MF 0.47MF	5% 10% 10% 20%	50V 50V 50V
C532 C533 C534 C535 C536	1-124-557-11 1-124-927-11 1-124-768-11 1-136-161-00 1-124-927-11	ELECT ELECT	1000MF 4.7MF 4.7MF 0.047MF 4.7MF	20% 20% 20% 5% 20%	25V 50V 50V 50V 50V	C1621 1-163	3-117-00 3-035-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF	5% 5%	50V 50V 50V
C537 C538 C539 C540 C541	1-124-484-11 1-124-910-11 1-136-113-00 1-163-017-00 1-163-035-00	ELECT FILM	220MF 47MF 2MF 0.0047MF 0.047MF	20% 20% 5% 10%	35V 50V 200V 50V 50V	CN502 1-506 CN504 *1-564	4-506-11 6-477-11 4-507-11	NECTOR> PLUG, CONNECT PIN, CONNECTO PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT	OR 12P OR 4P		
C542 C545 C546 C547 C548	1-126-103-11 1-126-101-11 1-124-907-11 1-124-907-11 1-124-907-11	ELECT	470MF 100MF 10MF 10MF 10MF	20% 20% 20% 20% 20%	16V 16V 50V 50V 50V	CN508 *1-564	4-104-00	PIN, CONNECTO PLUG, CONNECT	R (B3P-VH)	3P	
C549 C550 C551 C552 C553	1-124-907-11 1-124-907-11 1-124-927-11 1-101-004-00 1-126-103-11	ELECT ELECT CERAMIC	10MF 4.7MF	20% 20% 20% 20%	50V 50V 50V 50V 16V	D502 8-719 D503 8-719 D504 8-719	9-404-46 9-404-46	DIODE MAIIO DIODE MAIIO DIODE MAIIO DIODE MAIIO DIODE GPOSD			
C563 C564 C567 C568 C569	1-106-383-00 1-163-009-11 1-124-907-11 1-130-736-11 1-130-471-00	MYLAR CERAMIC CHIP ELECT FILM FILM	0.047MF 0.001MF 10MF 0.01MF 0.001MF	10% 10% 20% 5% 5%	100V 50V 50V 50V 50V	D507 8-719 D508 8-719 D511 8-719 D512 8-719	9-404-46 9-404-46 9-404-46 9-404-46 9-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110			
C570 C571 C572 C574 C575	1-163-117-00 1-124-913-11 1-101-004-00 1-106-351-00 1-106-351-00	CERAMIC CHIP ELECT CERAMIC MYLAR MYLAR	100PF 470MF 0.01MF 0.0022MF 0.0022MF	5% 20% 10% 10%	50V 50V 50V 100V 100V	D520 8-719 D521 8-719 D831 8-719 D832 8-719	9-800-76 9-800-76 9-404-46 9-404-46	DIODE 1SS226 DIODE 1SS226 DIODE MAI10 DIODE MAI10 DIODE MAI10			
C831 C832 C833 C834 C835	1-124-907-11 1-124-907-11 1-163-009-11 1-163-121-00 1-163-209-00	ELECT ELECT CERAMIC CHIP CERAMIC CHIP	150PF	20% 20% 10% 5%	50V 50V 50V 50V 50V	D834 8-719 D835 8-719 D836 8-719 D848 8-719	9-404-46 9-109-89 9-977-69 9-800-76 9-105-XX	DIODE MA110 DIODE RD5.6ES DIODE DTZ24B DIODE 1SS226 DIODE RD6.2M-			
C836 C837 C838 C839	1-124-907-11 1-163-209-00 1-136-163-00 1-106-351-00	ELECT CERAMIC CHIP FILM MYLAR	10MF 0.0015MF 0.068MF 0.0022MF	20% 5% 5% 10%	50V 50V 50V 100V	D1603 8 719 D1606 8-719	9-977-61 9-981-00 9-981-00	DIODE DTZ20B DIODE ERC81-C DIODE ERC81-C	04		



The components identified by shading and mark  $\triangle$  are critical for safety.

Replace only with part number specified.

REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	-			REMARK
D1608 8-719-977-02 D1609 8-719-977-49 D1610 8-719-404-46 D1611 8-729-101-31 D1612 8-719-404-46	DESCRIPTION  DIODE DTZ5.6A DIODE MA110 TRANSISTOR N13T1 DIODE MA110 DIODE MA110 DIODE DTZ15B DIODE DTZ15B DIODE DTZ15B DIODE MA152WK DIODE MA152WK DIODE MA152WK DIODE MA152WK DIODE MA110		Q532 Q569 Q576 Q579	8-729-422-27 8-729-907-26 8-729-920-48 8-729-920-48	TRANSISTOR 2 TRANSISTOR I TRANSISTOR I TRANSISTOR I	2SD601A-Q   MX1   MH2   MH2			
D1615 8-719-404-46 D1617 8-719-977-49 D1618 8-719-977-49 D1620 8-719-400-18 D1621 8-719-510-12	DIODE MA110 DIODE DTZ15B DIODE DTZ15B DIODE MA152WK DIODE D10SC4M		Q833 Q834 Q835 Q836 Q1601	8-729-216-22 8-729-422-27 8-729-422-27 8-729-255-12 8-729-422-27	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	2SA1162-G 2SD601A-Q 2SD601A-Q 2SC2551-0 2SD601A-Q	; ] ]		
D1622 8-719-400-18 D1623 8-719-400-18 D1626 8-719-404-46 D1627 8-719-404-46 D1628 8-719-404-46	DIODE MA152WK DIODE MA152WK DIODE MA110 DIODE MA110 DIODE MA110		Q1602 Q1603 Q1604 Q1605 Q1606	8-729-422-27 8-729-422-27 8-729-216-22 8-729-119-80 8-729-133-42	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	2SD601A-Q 2SD601A-Q 2SA1162-G 2SC2688-L 2SC2334-L	K		
D1635 8-719-404-46 D1699 8-719-404-46	DIODE MA110 DIODE MA110		Q1607 Q1608	8-729-422-27 8-729-422-27	TRANSISTOR 2	SD601A-Q SD601A-Q			
<fus< td=""><td>E&gt;</td><td>4.000</td><td>Q1610 Q1611</td><td>8-729-422-27 8-729-422-27</td><td>TRANSISTOR 2</td><td>SD601A-Q SD601A-Q</td><td></td><td></td><td></td></fus<>	E>	4.000	Q1610 Q1611	8-729-422-27 8-729-422-27	TRANSISTOR 2	SD601A-Q SD601A-Q			
F1602A.1-576-232-11 <ic></ic>	FUSE, MICRU (SECUNDARY) (1.25A/) FUSE (H. B. C) (5.0A/250V)  IC CX23025 IC UPC1377C IC LA7830 IC MC7812CT IC MC14538BF	<b></b>	Q1613 Q1614 Q1615	8-729-422-27 8-729-422-27 8-729-216-22	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	2SD601A-Q 2SD601A-Q 2SA1162-G			
IC501 8-759-909-70 IC502 8-759-100-60 IC503 8-759-801-98 IC504 8-759-701-70	IC CX23025 IC UPC1377C IC LA7830 IC MC7812CT		Q1616 Q1617	8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR 2 TRANSISTOR 2	SA1162-G SA1162-G			
10505 8-759-009-51 10831 8-759-509-29			 		ISTOR>	.SA1102 U			
10832 8-759-509-37 10833 8-759-009-51 101601 8-759-509-91	IC XRU4070BF IC MC14538BF		R501 R502 R503 R504	1-216-089-00 1-216-089-00 1-249-437-11 1-216-073-00 1-249-393-11		47K 47K 47K	5% 5% 5%	1/10W 1/10W 1/4W 1/10W	F
	PER RESISTOR>		i					1/4W	F
<001			R509	1-216-071-00 1-216-059-00 1-216-085-00 1-216-687-11 1-216-683-11	METAL GLAZE METAL GLAZE METAL CHIP	8.2K 2.7K 33K 33K 22K	5% 5% 5% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	
D1001 1 437 133 00	COIL, CHOKE (PMC) 390UH INDUCTOR 27UH COIL (WITH CORE) 47UH		R511 R512 R513 R514 R515	1-216-675-11 1-218-761-11 1-216-065-00 1-218-754-11 1-216-081-00	METAL CHIP	240K 4.7K 120K	0.50% 0.50% 5% 0.50% 5%	1/10W 1/10W	
L1602 1-402-785-11 L1603 1-410-397-21	COIL, CHOKE 600UH FERRITE BEAD INDUCTOR		R516 R517 R518	1-216-073-00 1-218-762-11 1-249-422-11	METAL GLAZE METAL CHIP CARBON	10K 270K 2.7K	5% 0.50% 5%	1/10W 1/10W 1/4W	F
<1NA Q501 8-729-901-01	NSISTOR>		R519 R520	1-216-085-00 1-216-677-11	METAL GLAZE METAL CHIP	33K 12K	5% 0.50%	1/10W 1/10W	
0502 8-729-901-01 0503 8-729-901-06 0504 8-729-901-01 0505 8-729-422-27	TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2SD601A-Q		R521 R522 R523 R524 R525	1-216-067-00 1-216-107-00 1-216-081-00 1-216-049-00 1-216-434-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE	5.6K 270K 22K 1K 1.8K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	F
Q508 8-729-422-27 Q509 8-729-422-27 Q510 8-729-901-06 Q512 8-729-422-27 Q513 8-729-216-22	COIL, CHOKE 600UH FERRITE BEAD INDUCTOR  NSISTOR>  TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTA144EK TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR DTA144EK TRANSISTOR DTA144EK TRANSISTOR ZSD601A-Q		R526 R527 R528 R529 R530	1-216-079-00 1-249-437-11 1-216-073-00 1-216-073-00 1-216-089-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE	18K 47K 10K 10K 47K	5% 5% 5% 5%	1/10W 1/4W 1/10W 1/10W 1/10W	F
Q514 8-729-216-22 Q515 8-729-313-42 Q518 8-729-422-27 Q519 8-729-422-27	TRANSISTOR 2SA1162-G TRANSISTOR 2SD1134-C TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q		R531 R532 R533	1-216-089-00 1-216-097-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 100K 47K	5% 5% 5%	1/10W 1/10W 1/10W	



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R534 R535 R536 R537 R538	1-216-097-00 1-216-053-00 1-212-881-11 1-215-867-00 1-216-095-00	METAL GLAZE METAL GLAZE FUSIBLE METAL OXIDE METAL GLAZE	100K 1.5K 100 470 82K		1/10W 1/10W 1/4W F 1W F 1/10W	R852 R853 R854 R855 R856	1-216-675-11 1-216-105-00 1-218-754-11 1-216-697-11 1-216-699-11	METAL CHIP METAL GLAZE METAL CHIP METAL CHIP METAL CHIP	82K 100K	0.50% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W	
R539 R540 R541 R542 R543	1-216-095-00 1-216-101-00 1-216-063-00 1-216-075-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82K 150K 3.9K 12K 4.7K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R857 R858 R859 R860 R861	1-216-686-11 1-216-061-00 1-216-436-00 1-216-675-11 1-216-671-11	METAL CHIP  METAL GLAZE  METAL OXIDE  METAL CHIP  METAL CHIP	10K 6.8K	0.50% 0.50%	1/10W 1W 1/10W 1/10W	<b>F</b>
R544 R545 R546 R547 R548	1-216-101-00 1-216-041-00 1-216-091-00 1-216-121-00 1-216-107-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150K 470 56K 1M 270K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R862 R863 R1503 R1504 R1505	1-216-675-11 1-249-435-11 1-216-049-00 1-216-695-11 1-216-089-00	CARBON METAL GLAZE METAL CHIP METAL GLAZE	10K 33K 1K 68K 47K	5% 0.50% 5%	1/4W 1/10W 1/10W 1/10W	<b>F</b>
R549 R550 R552 R553 R554	1-216-101-00 1-216-356-00 1-216-061-00 1-216-689-11 1-216-073-00	METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5%	1/10W 1W F 1/10W 1/10W 1/10W	R1506 R1507 R1508 R1509 R1510	1-216-667-11 1-216-081-00 1-216-073-00 1-216-065-00 1-249-425-11	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE CARBON	4.7K 22K 10K 4.7K 4.7K 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/4W 1/10W	F
R555 R557 R558 R559 R560	1-216-077-00 1-216-057-00 1-216-049-00 1-216-065-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 4.7K 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1511 R1512 R1513 R1519 R1520	1-216-033-00 1-216-049-00 1-216-017-00 1-216-031-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	1K 47 180 1.5K 27K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R561 R562 R563 R564 R565	1-216-081-00 1-216-053-00 1-216-061-00 1-249-415-11 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE	680 2.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/4W F 1/10W	R1601 R1602 R1603 R1604 R1605	1-216-685-11 1-216-681-11 1-216-671-11 1-249-433-11 1-216-070-00 1-216-070-00	METAL CHIP METAL CHIP CARBON METAL GLAZE METAL GLAZE	18K 6.8K 22K 7.5K 7.5K	0.50% 0.50% 5% 5%	1/10W	F
R566 R567 R568 R569 R570	1-216-025-00 1-216-095-00 1-216-063-00 1-216-063-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1606 R1607 R1608 R1609 R1610 R1611	1-216-070-00 1-216-071-00 1-216-065-00 1-216-069-00 1-216-057-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 4.7K 6.8K 2.2K 2.2K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R571 R572 R573 R574 R575	1-216-089-00 1-216-095-00 1-216-063-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 82K 3.9K 3.9K 220K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1612 R1613 R1614 R1615 R1616	1-215-913-11 1-216-025-00 1-216-067-00 1-216-657-11 1-216-629-11	METAL OXIDE METAL GLAZE METAL GLAZE METAL CHIP	220 100 5.6K	-	3W 1/10W 1/10W 1/10W	F
R576 R577 R578 R579 R589	1-216-109-00 1-216-105-00 1-249-457-11 1-249-457-11 1-216-101-00	CARBON CARBON METAL GLAZE	330K 220K 6.8 6.8 150K	5% 5% 5%	1/10W 1/10W 1/4W F 1/4W F 1/10W		1-216-659-11 1-216-073-00 1-216-065-00 1-216-073-00 1-216-073-00			0.50% 5% 5% 5%		
R591 R592 R831 R832 R833	1-216-063-00 1-216-033-00 1-216-049-00 1-216-075-00 1-216-065-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 220 1K 12K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1623 R1624 R1625 R1626 R1627	1-216-073-00 1-216-246-00 1-216-061-00 1-216-065-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 100K 100K 3.3K 4.7K	5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/10W	
R834 R835 R836 R837 R838	1-216-053-00 1-216-081-00 1-216-049-00 1-216-049-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 1K 12K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1628 R1629 R1630 R1631 R1632	1-216-073-00 1-216-683-11 1-216-683-11 1-216-057-00 1-216-042-00	METAL GLAZE METAL CHIP METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE	10K 22K 22K 2.2K 510	5% 0.50% 0.50% 5%	1/10W 1/10W	
R839 R840 R841 R842 R843	1-216-097-00 1-216-097-00 1-216-093-00 1-216-065-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 100K 68K 68K 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1633 R1634 R1635 R1636 R1640	1-216-109-00 1-216-099-00 1-216-097-00 1-216-073-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330K 120K 100K 10K 3.9K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R847 R850 R851	1-216-049-00 1-216-085-00 1-216-669-11	METAL GLAZE METAL GLAZE METAL CHIP	1K 33K	5% 5% 5% 0.50%	1/10W 1/10W	R1641 R1642	1-216-073-00 1-216-073-00	METAL GLAZE	10K 10K	5% 5%	1/10W 1/10W	

# PVM-9041QM/9044QM

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 The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
 Should replacement be required, replace only with the value originally used.

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R1643 1-216-069 R1644 1-216-069 R1645 1-216-073 R1646 1-216-073 R1647 1-216-685	D-00 METAL GLAZE 6.8K 5% B-00 METAL GLAZE 10K 5% B-00 METAL GLAZE 10K 5%	1/10W 1/10W 1/10W 1/10W 50% 1/10W		C1111	1-163-119-00 1-163-031-11 1-163-117-00 1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V 50V 50V
R1648 1-216-069 R1649 1-216-069 R1650 1-216-069 R1651 1-216-069 R1652 1-216-069	9-00 METAL GLAZE 6.8K 5% 9-00 METAL GLAZE 6.8K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C1113 C1114 C1115		CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	120PF 27PF 0.1MF	20% 5% 5% 10%	50V 50V 50V 25V
R1653 1-216-069 R1654 1-216-681 R1655 1-216-081 R1656 1-216-645 R1657 1-216-083	9-00 METAL GLAZE 6.8K 5% 1-11 METAL CHIP 18K 0. 1-00 METAL GLAZE 22K 5% 3-11 METAL CHIP 470 0.	1/10W 50% 1/10W 1/10W 50% 1/10W		C1119 C1120	1-163-097-00	CERAMIC CHIP	1571	2%	16V 25V 50V 50V
R1658 1-216-063 R1659 1-216-049 R1660 1-216-649	8-00 METAL GLAZE 3.9K 5% 9-00 METAL GLAZE 1K 5% 9-11 METAL CHIP 820 0.	1/10W 1/10W 50% 1/10W			1-163-097-00 1-163-222-11 1-163-097-00 1-163-097-00 1-163-097-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	5PF 15PF 15PF 15PF	0.25PF 5% 5% 5%	50V 50V 50V 50V
				<connector></connector>					
	<pre><variable resistor=""> 0-11 RES, ADJ, CARBON 47K</variable></pre>	. 1,10	:	CN1101	*1-565-488-11	CONNECTOR, BO	ARD TO BOAR	RD 12P	
RV502 1-241-631 RV503 1-241-763	1-11 RES, ADJ, CARBON 22K 3-11 RES, ADJ, CERMET 4.7K			i · ! !	<010	DE>			
RV504 1-224-250 RV505 1-238-009 RV506 1-241-627	D-XX RES, ADJ, METAL GLAZE D-11 RES, ADJ, CARBON 220	2.2K		D1101 D1102	8-719-404-46 8-719-404-46				
RV507 1-241-628 RV508 1-241-627 RV509 1-238-021 RV511 1-241-629	3-11 RES, ADJ, CARBON 2.2K 7-11 RES, ADJ, CARBON 1K 1-11 RES, ADJ, CARBON 220K			101101	<1C>8-752-056-67	IC CXA1214P			
RV512 1-241-629 RV514 1-238-019	9-11 RES, ADJ, CARBON 47K				\(\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\				
RV515 1-238-02 RV516 1-241-763 RV831 1-228-997 RV832 1-241-764	B-11 RES, ADJ, CERMET 4.7K 7-00 RES, ADJ, METAL GLAZE	100К		L1101 L1102 L1103	1-408-411-00 1-404-496-00 1-404-496-00 1-408-411-00 1-412-008-31	INDUCTOR COIL COIL INDUCTOR	15UH 15UH		
RV833A 1-228-996 RV1601 1-241-767 RV1602 1-241-627	5-11 RES, ADJ, METAL GLAZE 2-11 RES, ADJ, CERMET 2.2K 7-11 RES. ADJ. CARBON 1K				1-412-008-31 1-412-008-31				
Mr 1003/1-228-990	6-11 RES, ADJ, METAL GLAZE	411			<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td></tra<>	NSISTOR>			
	<relay></relay>			01101	8-729-216-22		A1162-G		
RY1601 1-515-48	1-21 RELAY (G2R-212P-V) <transformer></transformer>			Q1102 Q1103 Q1104	8-729-422-27 8-729-216-22	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	D601A-Q A1162-G A1162-G		
	6-11 TRANSFORMER, DRIVE			Q1107	8-729-109-44		K94		
	**************************************	********	:******	#1108	8-729-422-27	TRANSISTUR 25	N-0119-f		
*A-1394-30	68-A S BOARD, COMPLETE				<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<>	ISTOR>			
	<capacitor></capacitor>			R1101 R1102 R1103	1-216-053-00 1-216-067-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 5% 5.6K 5% 2.7K 5%	1/10W 1/10W 1/10W	
C1101 1-163-11 C1102 1-164-00 C1103 1-124-58		10%	50V 25V 16V	R1104		METAL GLAZE METAL GLAZE	10K 5% 180 5%	1/10W 1/10W	
C1103 1-124 36 C1104 1-163-03 C1105 1-163-11	1-11 CERAMIC CHIP 0.01MF	5%	50V 50V	R1106 R1107	1-216-071-00	METAL GLAZE METAL GLAZE	2.7K 5% 8.2K 5% 390 5%	1/10W 1/10W	
C1106 1-163-10 C1107 1-164-00		5% 10%	50V 25V	R1108 R1109 R1110	1-216-039-00 1-216-063-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE	390 5% 3.9K 5% 6.8K 5%	1/10W 1/10W 1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1111 R1112 R1113 R1114 R1115	1-216-065-00 1-216-059-00 1-216-069-00 1-216-055-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 2.7K 6.8K 1.8K 3.3K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1116 R1117 R1118 R1119 R1120	1-216-069-00 1-216-061-00 1-216-073-00 1-216-049-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 3.3K 10K 1K 100K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1121 R1122 R1123 R1124 R1125	1-216-121-00 1-216-039-00 1-216-065-00 1-216-029-00 1-216-029-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1M 390 4.7K 150 150	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1126 R1127 R1128 R1129 R1131	1-216-053-00 1-216-043-00 1-216-049-00 1-216-091-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 560 1K 56K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1132 R1133 R1134	1-216-073-00 1-216-073-00 1-216-091-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 56K	5% 5% 5%	1/10W 1/10W 1/10W	

<VARIABLE RESISTOR>

RV1101 1-241-629-11 RES, ADJ, CARBON 4.7K RV1102 1-241-628-11 RES, ADJ, CARBON 2.2K

<TRANSFORMER>

T1101 1-404-584-11 COIL

# PVM-9041QM/9044QM

# SONY. SERVICE MANUAL

AEP Model

PVM-9041QM Chassis No. SCC-F09B-A PVM-9044QM Chassis No. SCC-F09A-A

# **SUPPLEMENT-3**

File this supplement with the service manual.

### INTRODUCTION

New Product, which have a changeover switch with both 16: 9 and 4: 3, has come from the following Serial Number.

Model	Serial Number
PVM-9041QM	2,500,001 and later
PVM-9044QM	2,500,001 and later



### **SPECIFICATIONS**

Video signal

Color system

PVM-9044QM/9041QM:

PAL, SECAM, NTSC, NTSC4.43

Resolution

PVM-9044QM: 450 TV lines

PVM-9041QM: 250 TV lines

Aperture correction -4.0 dB - +6.0 dB (at 3.0 MHz) Frequency response 6.0 MHz (-3.0 dB) at all inputs

Synchronization

AFC time constant 1.0 msec.

Picture performance

Normal scan

6% over scan of CRT effective screen

area

Underscan

3% underscan of CRT effective screen

H. linearity V. linearity

Less than 7.0% (typical) Less than 7.0% (typical)

Convergence

Central area: 0.43 mm (typical)

Peripheral area: 0.53 mm (typical)

Raster size stability H: 1.0%, V: 1.5% High voltage regulation

3.0% D65

Color temperature

Inputs and Outputs

Inputs

Y/C IN: 4-pin mini DIN connector

(See the pin assignment on page 10.)

VIDEO IN: BNC connector 1Vp-p ± 6 dB, sync negative AUDIO IN: phono jack, -5 dBs, less

than 47k ohms

R/R-Y, G/Y, B/B-Y: BNC connector R, G, B channels: 0.7 Vp-p, ±6 dB Sync on green: 0.3 Vp-p, negative, R-Y, Y, B-Y channels: 0.7 Vp-p, ±6 dB (Standard color bar signal of 100%

chrominance)

EXT SYNC IN: BNC connector Composite sync 4 Vp-p, ±6 dB,

negative

Loop-through outputs Y/C OUT: 4-pin mini DIN connector,

75 ohms terminated

VIDEO OUT: BNC connector, 75 ohms terminated AUDIO OUT: phono jack Output level 0.5 W

EXT SYNC OUT: BNC connector,

75 ohms terminated

Remote input

REMOTE: 8-pin mini DIN

connector (See the pin assignment

on page 10.)

General

Power consumption PVM-9044QM/9041QM

43 W at AC operation 40 W at DC operation

Power requirements 100 - 240 V AC, 50/60 Hz (for all

models)

12 V DC, with the Sony (NP-1A/1B) battery pack (not supplied) or AC-550/550CE AC power adaptor

(not supplied)

Operating temperature range

0 - 35°C

Storage temperature range

-10 - +40°C 0 - 90%

Humidity **Dimensions** 

Approx.  $217 \times 217 \times 352.5 \text{ mm (w/h/d)}$ 

 $(8^{5}/8 \times 8^{5}/8 \times 14 \text{ inches})$ 

not incl. projecting parts and controls

Weight

Approx. 7.8 kg (17 lb 3 oz)

not incl. battery packs

Accessory supplied AC power cord (1)

Cable with an 8-pin connector (1)

AC plug holders (1 set)

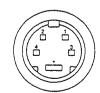
Tally plate (1)

Design and specifications are subject to change without

notice.

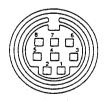
### Pin Assignment

Y/C IN connector (4-pin mini DIN)



Pin No.	Signal	Description
1	Y-input	1 Vp-p, sync negative, 75 ohms
2	CHROMA sub-carrier- input	300 mVp-p, burst Delay time between Y and C: within 0±100 nsec., 75 ohms
3	GND for Y-input	GND
4	GND for CHROMA- input	GND

REMOTE connector (8-pin mini DIN)



Pin No.	Signal
1	Blue only
2	H/V delay
3	GND
4	INT/EXT SYNC
5	Tally
6	Underscan/normal scan
7	A/B or RGB/Y R-Y B-Y
8	RGB/LINE

For remote control, connect the pin of the desired function to pin 3 (GND).

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# SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

### 1-1. FEATURES

### Four color systems available

(PVM-9044QM/9041QM only)

The monitor can display PAL, SECAM, NTSC and NTSC4.43" signals. The appropriate color system is selected automatically.

# HR (High Resolution) Trinitron®2) picture tube

(PVM-9044QM only)

The HR Trinitron picture tube provides a high resolution picture. Horizontal resolution is more than 450 TV lines at the center of the picture.

### Blue only picture

(PVM-9044QM/9041QM only)

The picture can be displayed in blue and black only. This facilitates hue adjustment and the observation of video noise.

### Analog RGB/component input connectors

(PVM-9044QM/9041QM only)

Analog RGB or component (Y, R-Y and B-Y) signals from video equipment can be input through these connectors.

### Y/C input connector

The video signal, split into the chrominance signal (C) and the luminance signal (Y), can be input through this connector, eliminating the interference between the two signals, which tends to occur in a composite video signal, assuring video quality.

### Beam current feedback circuit

The built-in beam current feedback circuit assures stable white balance.

### Comb filter

(PVM-9044QM/9041QM only)

When NTSC video signals are received, a comb filter activates to increase the resolution, resulting in fine picture detail without color spill or color noise.

### Under scan 4:3/16:9 selector<sup>3)</sup>

(PVM-9044QM/9041QM only)

The monitor can display the 16:9 signal with the correct ratio of width and height, compressing the picture vertically. Selecting 16:9 with the UNDER SCAN 4:3/16:9 selector on the rear panel in the under scan mode changes the ratio of the picture to 16:9.

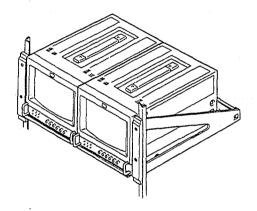
### Automatic termination

(only connectors marked-\\*3)

The Y/C, VIDEO IN and EXT SYNC IN<sup>4)</sup> connectors are terminated at 75 ohms inside, when no cable is connected to the loop-through output connectors. When a cable is connected to an output connector, the 75-ohm termination is automatically released.

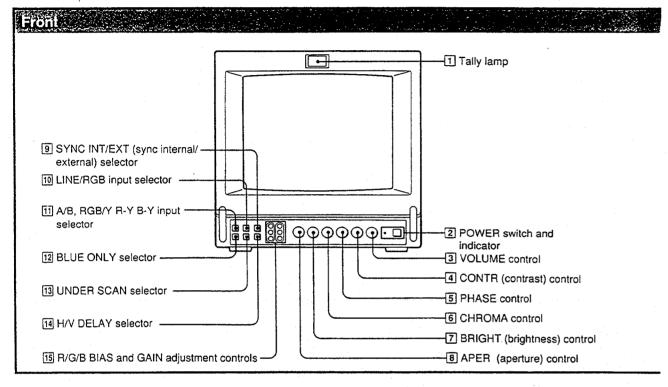
### EIA standard 19-inch rack mounting

By using an MB-507 mounting bracket (not supplied), the monitor can be mounted in an EIA standard 19-inch rack. For details on mounting, see the instruction manual of the MB-507.



- An NTSC4.43 signal is used for playing back NTSC-recorded video cassettes with a video tape recorder/player especially designed for use with this system.
- 2) Trinitron is a trademark of Sony Corporation.
- The UNDER SCAN 4:3/16:9 selector and the wmark have been adopted since the serial No. 2500001 product.
- The EXT SYNC IN connector is provided with the PVM-9044QM/ 9041QM only.

### 1-2. LOCATION AND FUNCTION OF PARTS AND CONTROLS



1 Tally lamp

### 2 POWER switch and indicator

Depress to turn the monitor on. The indicator will light up in green.

The POWER indicator also functions as the battery indicator. When the internal battery becomes weak or the power supplied through the DC12V IN jack decreases, the indicator flashes.

### 3 VOLUME control

Turn this control clockwise or counterclockwise to obtain the desired volume.

### 4 CONTR (contrast) control

Turn clockwise to make the contrast stronger and counterclockwise to make it weaker.

### 5 PHASE control

This control is effective only for the NTSC and NTSC4.43 color systems. Turn clockwise to make the skin tones greenish and counterclockwise to make them purplish.

### 6 CHROMA control

Turn clockwise to make the color intensity stronger and counterclockwise to make it weaker.

### 7 BRIGHT (brightness) control

Turn clockwise for more brightness and counterclockwise for less.

### 8 APER (aperture) control

Turn clockwise for more sharpness and counterclockwise for less.

### Notes

- The PHASE, CHROMA and APER control settings have no effect on an analog RGB signal.
- The PHASE control has no effect on component singals.
- . The PHASE control setting is effective only for the NTSC system.

### SYNC INT/EXT (sync internal/external) selector Keep this button released (INT) to operate the monitor on the sync signal from the displayed composite video

signal.

Depress this button (EXT) to operate the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel.

### 10 LINE/RGB input selector

Select the program to be monitored. Keep this button released (LINE) for a signal fed through the LINE A or LINE B connectors. Depress this button (RGB) for a signal fed through the RGB connectors.

### 11 A/B, RGB/Y R-Y B-Y input selector

When the LINE/RGB input selector is set to LINE, keep this button released (A) for a signal fed through the LINE A connectors. Depress this button (B) for a signal fed through the LINE B connectors.

When the LINE/RGB input selector is set to RGB, select the RGB signal or the component signal which is fed through the RGB input connectors. Keep this button released (RGB) for the RGB signal. Depress this button (Y R-Y B-Y) for the component signal.

### 12 BLUE ONLY selector

Depress this button to turn off the red and green signals. A blue signal is displayed as an apparent monochrome picture on the screen. This facilitates "chroma" and "phase" control adjustments and the observation of video noise.

### 13 UNDER SCAN selector

Depress this button for underscanning. The display size is reduced by approximately 3% so that four corners of the raster are visible

With this buton depressed, if the UNDER SCAN 4:3/16:9 selector on the rear panel is set to 16:9, the ratio of the picture changes to 16:9.

### 14 H/V DELAY selector

Depress this button to observe the horizontal and vertical sync signals at the same time. The horizontal sync signal is displayed in the left quarter of the screen; the vertical sync signal is displayed near the center of the screen.

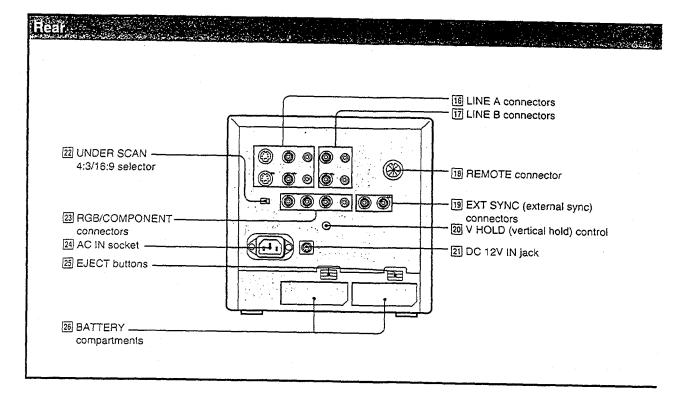
## Used for white balance fine adjustment.

BIAS and GAIN controls are provided for the R (red), G (green) and B (blue) screens.

BIAS: Adjust the white balance and brightness of the screen at the lowlight.

GAIN: Adjust the white balance and brightness of the screen at the highlight.

4



### 16 LINE A connectors

To monitor the signal fed through these connectors, keep the LINE/RGB selector and the A/B, RGB/Y R-Y B-Y selector on the front panel released (LINE and A).

### 17 LINE B connectors

To monitor the signal fed through these connectors, keep the LINE/RGB selector released (LINE) and depress the A/B, RGB/Y R-Y B-Y selector on the front panel (B).

VIDEO IN (BNC): Connect to the video output of a video camera, VCR or other video equipment.

VIDEO OUT (BNC): Loop-through output of the VIDEO IN connector. Connect to the video input of a VCR or another monitor.

AUDIO IN (phono jack): Connect to the audio output of a VCR or a microphone (through a suitable microphone amplifier).

AUDIO OUT (phono jack): Loop-through output of the AUDIO IN connector. Connect to the audio input of a VCR or another monitor.

### IB REMOTE connector (8-pin mini DIN)

Connect to the tally output of a control console, special-effect generator, etc. The tally lamp on the front panel will be turned on and off by the connected equipment. This connector can be used for connecting a remote controller. For the pin assignment of this connector, see "Specifications" on page 10.

Notes

When a plug is connected to the Y/C IN connector, the VIDEO IN connector is automatically disconnected.

6

19 EXT SYNC (external sync) connectors

IN (BNC): When this monitor operates on an external sync signal, connect the reference signal from a sync generator to this connector. In this case, depress the SYNC INT/EXT selector on the front panel (EXT).

OUT (BNC): Loop-through output of the EXT SYNC IN connector. Connect to the external sync input of video equipment to be synchronized with this monitor.

V HOLD (vertical hold) control Turn to stabilize the picture if it rolls vertically.

② DC 12V IN jack (XLR, 4 pin)
Connect the Sony AC-550/550CE AC power adaptor (not supplied).

UNDER SCAN 4:3/16:9 selector

Set to compress the picture vertically to monitor the 16:9 input signal with the correct ratio.

The function of the UNDER SCAN button on the front

panel is changed by the position of this selector.

UNDER SCAN button 4:3/16:9 selector	Not depressed (瓜)	Depressed (요)
When the selector is set to 4:3	The 4:3 input signal is monitored with overscanning.	The 4:3 input signal is monitored with underscanning.
When the selector is set to 16:9	The 4:3 input signal is monitored with overscanning.	The 16:9 input signal is monitored with underscanning. (Compressed vertically)

The UNDER SCAN 4:3/16:9 selector has been adopted since the serial No. 2500001 product.

### 23 RGB/COMPONENT input connectors

R/R-Y, G/Y, B/B-Y (BNC), AUDIO (phono):
To monitor a signal fed through these connectors, depress the LINE/RGB selector on the front panel (RGB). When the SYNC INT/EXT selector on the front panel is released (INT), the monitor operates on the sync signal from the G/Y channel.

To monitor the analog RGB signal Connect to the analog RGB signal outputs of a video camera. Keep the A/B, RGB/Y R-Y B-Y selector on the front panel released (RGB).

To monitor the component signal
Connect to the R-Y/Y/B-Y component signal outputs of a
Sony BetaCam video camera. Depress the A/B, RGB/Y
R-Y B-Y selector on the front panel (Y R-Y B-Y).

24 AC IN socket

Connect the supplied AC power cord to this socket and to a wall outlet.

EJECT buttons
Press the EJECT button upwards to remove the battery pack.

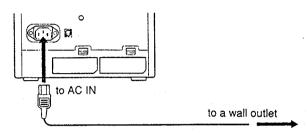
26 BATTERY compartments Insert the NP-1A/18 battery pack (not supplied).

7

### 1-3. POWER SOURCES

### House Current (for all models)

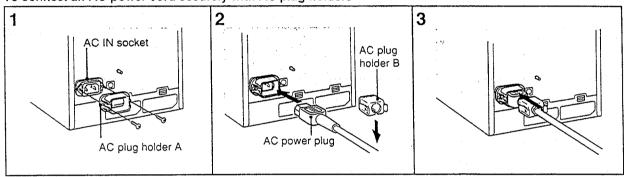
Connect the supplied AC power cord to the AC IN socket and to a wall outlet.



### For the PVM-9044QM/9041QM

When the AC power cord is plugged into the AC IN socket, the battery pack (if installed) or the AC power adaptor (if connected) is automatically disconnected.

### To connect an AC power cord securely with AC plug holders



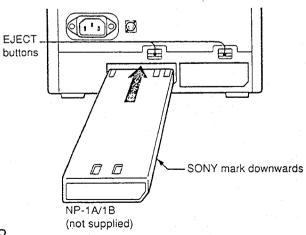
- 1 Remove the AC IN socket screws and then use them to attach the AC plug holder A (supplied) to the AC IN socket.
- 2 Plug the power cord to the AC IN socket. Then, attach the supplied AC plug holder B on top of the AC power cord.
- 3 Slide AC plug holder B over the cord until it locks.

### To remove the AC power cord

Pull out AC plug holder B by squeezing the left and right sides.

### Rechargeable Battery (PVM:9044QM/9041QM 6Hly)

The monitor can operate with one or two battery packs. For extended use, two battery packs are recommended.



To remove the battery pack, press the EJECT button upwards.

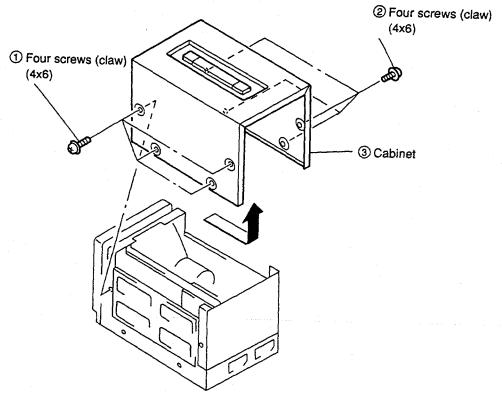
For charging, use the BC-1WA battery charger (not supplied) for the NP-1A or the BC-1WB for the NP-1B.

### Note

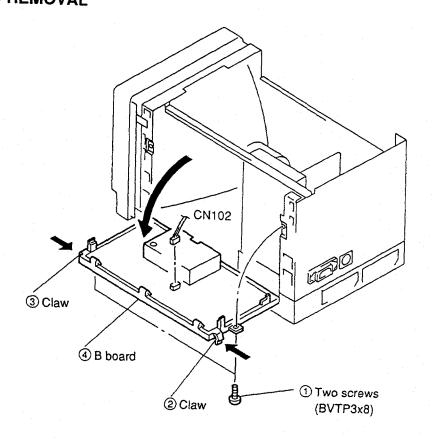
Make sure that the AC power cord and the AC power adaptor are disconnected from the monitor. Otherwise, the monitor cannot operate on the battery pack(s).

# SECTION 2 DISASSEMBLY

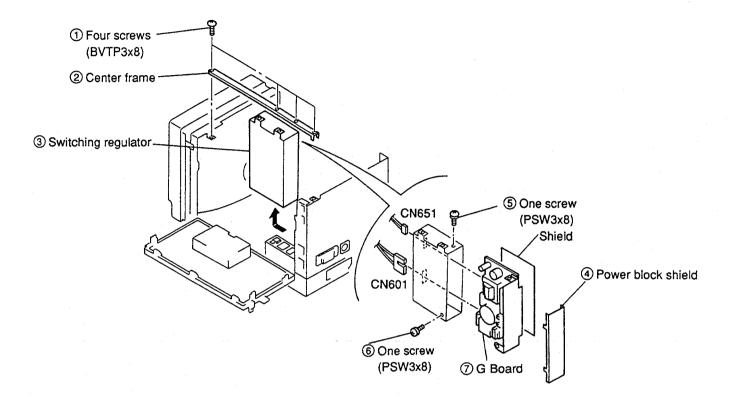
# 2-1. CABINET REMOVAL



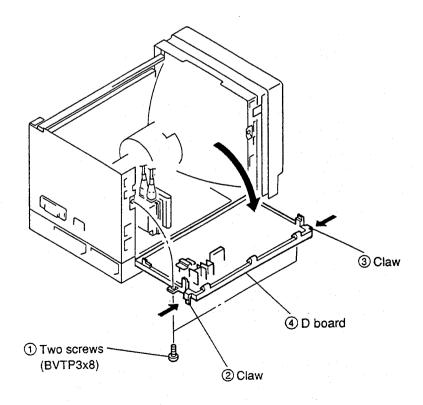
# 2-2. B BOARD REMOVAL



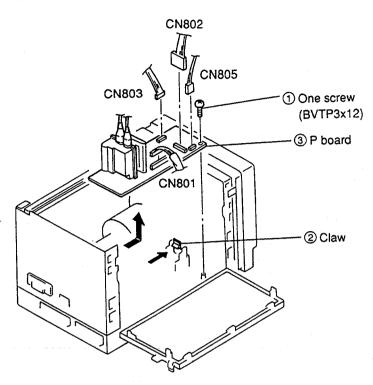
### 2-3. SWITCHING REGULATOR REMOVAL



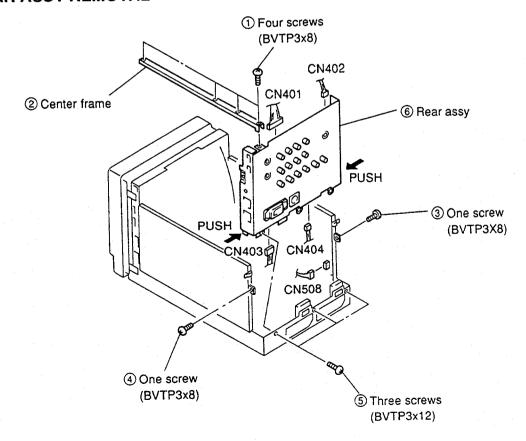
### 2-4. D BOARD REMOVAL



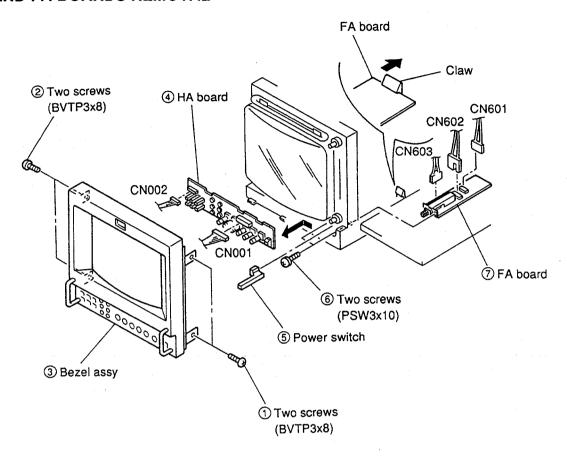
### 2-5. P BOARD REMOVAL



### 2-6. REAR ASSY REMOVAL



### 2-7. HA AND FA BOARDS REMOVAL



### 2-8. PICTURE TUBE REMOVAL

Note: Caution for ANODE CAP installation.

When you replace PICTURE TUBE or FBT, remove RTV on ANODE CAP so that PICTURE TUBE and FBT can be separated. Please adhere picture tube and anode cap in accordance with the following procedure.

### ADHERING PROCEDURE OF ANODE CAP.

- Clean PICTURE TUBE ANODE CAP with ethnaol to remove original RTV.
- 2. Dry clean face with air.

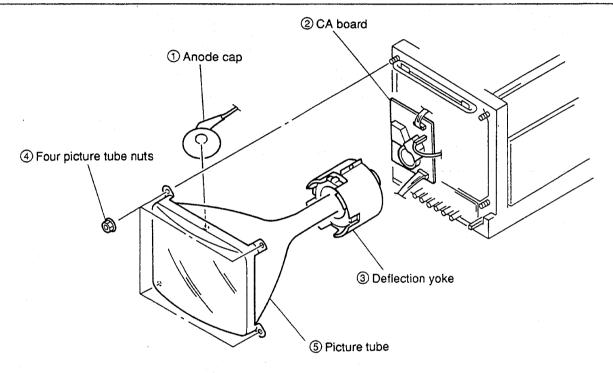
3. Use KE-490RTV (RTV silicone adhesive, SHIN-ETSU CHEMICAL).

Part. No. 7-322-065-19

Description

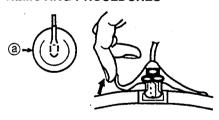
Silicone (RTV) KE-490W

- 4. Install ANODE CAP.
- 5. Adequately apply RTV to the entire picture tube anode area, piace the anode cap onto the picture tube and push it down securety so that no air pockets remain beneath the cap.
- 6. Dry more than 12 hours at room temperature.

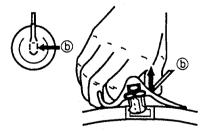


### REMOVAL OF ANODE-CAP

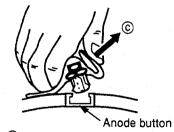
### REMOVING PROCEDURES



1 Turn up one side of the rubber cap in the direction indicated by the arrow a.



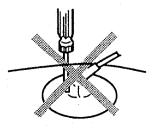
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.

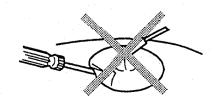


When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow .

### HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
  A metal fitting called as shatter-hook terminal is built
  - in the rubber.
- 3 Don't turn the foot of rubber over hardly!





# SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

CONTRAST control	80%
BRIGHTNESS control	50%

Perform the adjustments in order as follows:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White Balance

Note: Test equipment Required.

- 1. Color Bar/Pattern Generator
- 2. Degausser
- 3. Color Analyzer (Minolta)
- 4. Luminance Level Meter

### 3-1. BEAM LANDING

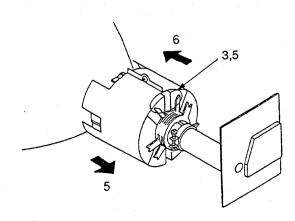
### Precaution

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- 2. Turn the power switch for the unit ON and erase the magnetic force using a degausser.

### (1) Beam Landing

- 2. Adjust the white balance, G2 voltage and convergence roughly.
- 3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.3-1.
- 4. Switch over the pattern generator to green.
- 5. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and blue and red are at the sides, evenly. (Fig.3-2)
- 6. Move the deflection yoke forward, and adjust so that the entire screen becomes green. Repeat 5 to 7 as to red and blue.
- 7. When landing at the corners is not right, correct by using the magnet. (Fig. 3-3)
- 8. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.

CAUTION: When correction magnet is used, be sure to degauss the unit.



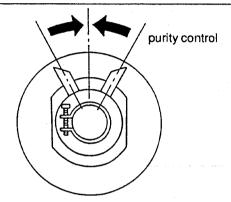


Fig.3-1

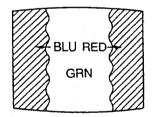
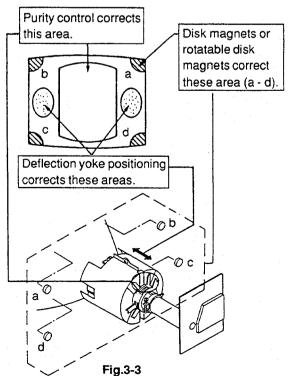


Fig.3-2

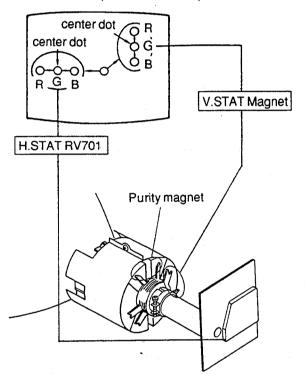


### 3-2. CONVERGENCE

- (1) Horizontal and vertical Static Convergence Adjustment on the Center of Screen.
- Before starting, perform V. SIZE, V. CENT, H.SIZE, H.CENT and Screen Distortion Adjustment rightly.

### (Static Convergence Adjustment)

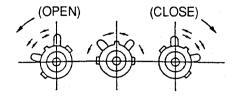
- Receive a dot signal, setting BRIGHTNESS minimum and set CONTRAST to normal.
- 2. Adjust H.STAT VR to coincide red, green and blue dots on the center of screen. (Horizontal movement)
- Adjust V.STAT magnet to coincide red, green and blue dots on the center of screen. (Vertical movement)



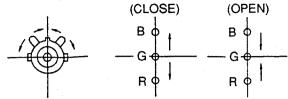
\* If the red, green and blue dots do not coincide on the center of screen with H.STAT VR, perform adjustment using V.STAT at the same time while tracking.

(Tile the V.STAT magnet and adjust static convergence to open or

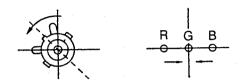
(Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.)



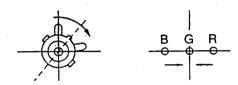
- 4. When the V.STAT magnet is moved in the direction of arrow A and b, red, green and blue dots move as shown below.
- When moving the V.STAT Magnet open or close.



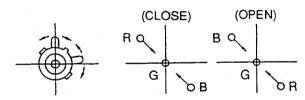
When moving the V.STAT magnet counterclockwise.



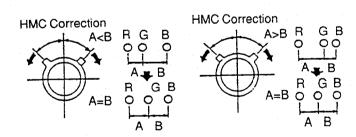
When moving the V.STAT magnet clockwise.



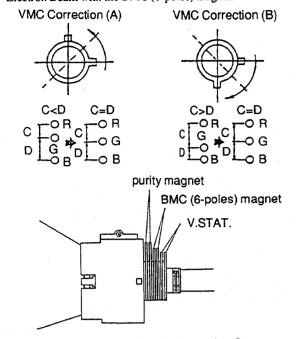
4 When tilt the V.STAT magnet and open or close.



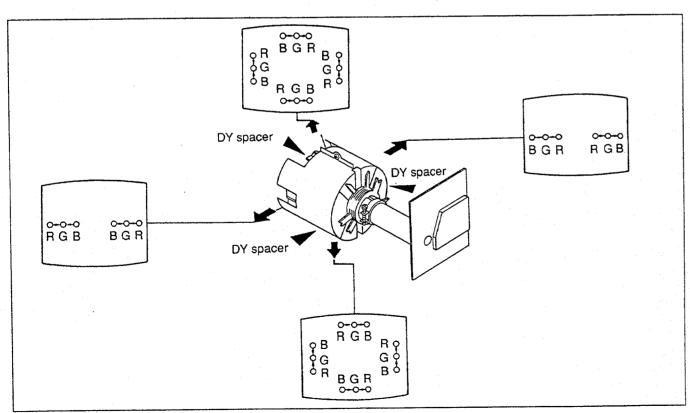
- \* If the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.
- 5. HMC and VMC correction for BMC (6-Poles) magnet.
- 1 HMC (Horizontal Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.



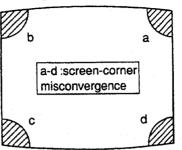
2) VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

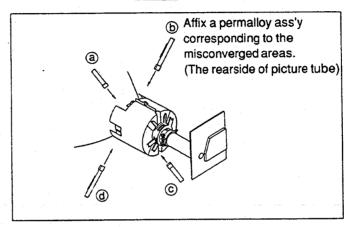


- (2) Horizontal and Vertical Dynamic Convergence Adjustment at the Environs of the Screen (Dynamic Convergence Adjustment)
- convergence as follows by moving the deflection yoke.
- 1. When there is misconvergence at the sides of screen, adjust for best 2. Loosen deflection yoke screw. Remove deflection yoke spacers. Move the deflection yoke for best convergence. Tighten the deflection yoke screw. Install three deflection yoke spacers.



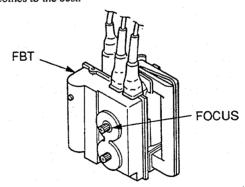
### Screen-corner Convergence





### 3-3. FOCUS

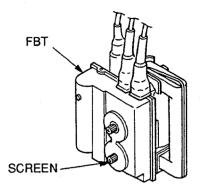
- 1. Receive a monoscope signal.
- 2. CONTRAST → Normal
- 3. Adjust FOCUS control so that the focus on the center of screen becomes to the best.



### 3-4. WHITE BALANCE

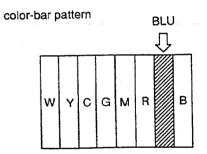
### [Screen (G2) Voltage Adjustment]

- 1. Receive a dot signal with the pattern generator.
- 2. Adjust R. G. B cut-off controls so that respective cathode voltage against ground becomes 103V DC.
- 3. Observing the screen, adjust SCREEN control so that the background of the dot signal is bright dimly.



### [White Balance]

- 1. Receive a color-bar pattern signal with the pattern generator. (Make black and white screen by chroma switch off.)
- 2. BRIGHTNESS ......50%
  - CONTRAST ..... Minimum
  - CHROMA .....50%
  - DRIVE control ...... Mechanical center
  - BKG control.....Mechanical center
- 3. Adjust RV118 (SUB BRT) on B board so that the blue stripe portion on the color-bar pattern signal is bright dimly.



- Receive an entirely white signal from the pattern generator.
- CONTRAST .....70% (90 degree clockwise from mechanical center.)
- 6. Using the luminance level meter, adjust the luminance level of the pattern generator becomes 3 Nits. (The condition the screen is bright dimly.)
- Adjust white balance at cut-off using RV119 (G-C/O) and RV121
- Change the all-white signal luminance level to 100 IREs.
- Adjust white balance at high-light using RV120 (G-GAIN) and RV121 (B-GAIN).
- 10. Change the unit to blue ONLY mode.
- 11. Adjust white balance (at high-light) in blue ONLY mode using RV124\*R-GAIN/BL) and RV125 (G-GAIN/BL).
- 12. Using the luminance level meter, adjust the luminance level of the pattern generator becomes 8 Nits. Confirm that white balance at cut-off is satisfactory..

# SECTION 4 SAFETY RELATED ADJUSTMENT

### 4-1. SAFETY RELATED ADJUSTMENTS

# B+ ADJUSTMENT AND B+ MAX CHECK FOR SERVICING ( ☑ RV651)

The following adjustments should always be performed when replacing the following components (marked with  $\square$  on the schematic diagram).

on G board: (Power supply block)
IC601, IC651, PH601, C654, R653, R655, R656, R657, RV651.

- 1. Input the AC power supply voltage  $240V_{-0}^{+1}V$ .
- 2. Input the monoscope signal.
- 3. Set as follows.
  - CONTRAST .....80%
  - BRIGHTNESS .....50%
- 4. Connect the digital multimeter to RY1601 pin-7 on the D board.
- Adjust RV651 on the G board so that the +B voltage becomes 40.0 ± 0.1V.
- 6. After adjusting RV651, fix it with an epoxy.
- 7. Input the AC power supply voltage  $240V_{-0}^{+1}V$ .
- 8. Input the dot signal.
- 9. Set as follows.
  - CONTRAST ...... Minimum
  - BRIGHTNESS ..... Minimum
- Check that the B+ voltage is below 41.9V.
   If it is above this value, repeat from step 1.

# B+ MAX IN DC POWER INPUT MODE, CONFIRMATION ( ☑ RV1603)

The following adjustments should always be performed when replacing the following components (marked with  $\square$  on the schematic diagram).

### on D board:

Q1601, Q1602, Q1603, D1601, D1602, D1603, D1622, C1601, C1602, R1601, R1602, R1603, R1604, R1605, R1606, R1607, R1608, R1628, R1629, R1630, RV1601, RV1603.

- 1. Supply DC  $12V_{-0}^{+0.4}$  V from DC 12V IN connector.
- 2. Receive a dot signal.
- 3. CONTRAST ......Minimum
  - BRIGHTNESS ..... Minimum
- 4. Connect a digital multimeter to C1605 positive + side of D board.
- 5. Turn RV1601 on the D board fully clockwise. Confirm that the voltage of C1605 + pin is less than 41.9V DC.
- 6. If step 5 is not satisfied, readjust the RV1603. After adjusting, fasten RV1603 in place with epoxy.

# HOLD-DOWN CIRCUIT CONFIRMATION (☐ RV833) AND READJUSTMENTS

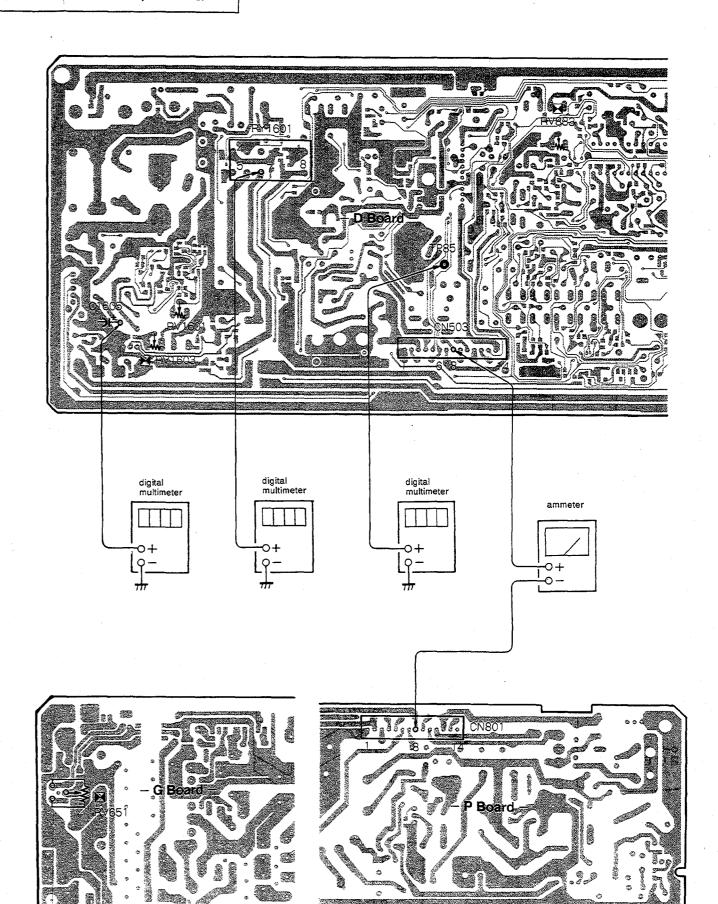
The following adjustments should always be performed when replacing the following components (marked with  $\square$  on the schematic diagram).

### on D board

IC502, Q833, Q834, Q835, Q836, D835, D836, C519, C843, C844, C845, C846, C847, C848, RV833, R523, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863.

on P board: C814, NL801, T802 (FBT)

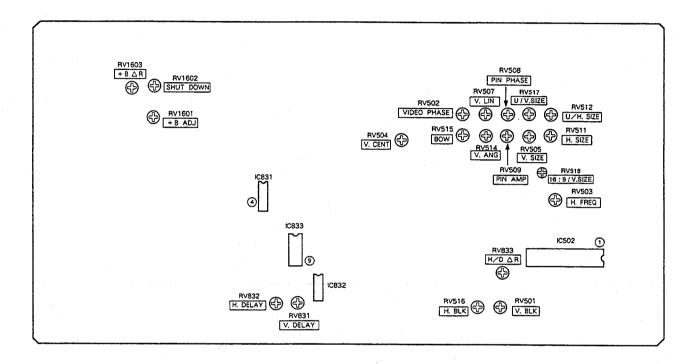
- 1. Receive an entire white signal.
- 2. CONTRAST ...... Maximum
  - BRIGHTNESS ..... Maximum
- 3. Connect a digital multimeter to the TP85 (CN503 pin-6).
- 4. Confirm the voltage is  $14.1 \pm 3.0$ V DC.
- 5. Receive a dot signal.
- Connect an ammeter between D board CN503 pin-® and P board CN801 pin-®.
- 7. Adjust BRIGHTNESS and CONTRAST so that the current is IABL =  $160 \pm 30 \mu A$ .
- 8. Apply an external DC voltage gradually to TP85. When the voltage becomes  $18.5V \pm 0.1V$  DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
- When external DC voltage at TP85 becomes 17.5V ± 0.1V DC, confirm the HOLD-DOWN circuit doesn't operate.
- 10. Receive an entire white signal.
- 11. Adjust with BRIGHTNESS and CONTRAST controls so that the current is IABL =  $520 \pm 30 \mu A$ .
- 12. Apply DC voltage of 17.8V  $\pm$  0.1V to TP85. Confirm the HOLD-DOWN circuit operates immediately and raster disappears.
- 13. With the same set-up as steps 10 and 11, supply  $16.8V \pm 0.1V$  DC to TP85. Confirm that the HOLD-DOWN circuit doesn't operate.
- 14. When above specifications are not satisfied, readjust RV833. After adjusting, fasten RV833 in place with epoxy.



# SECTION 5 CIRCUIT ADJUSTMENTS

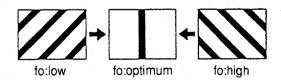
### 5-1. D BOARD ADJUSTMENTS

-D BOARD (COMPONENT SIDE)-



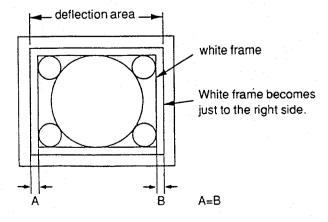
# HORIZONTAL OSCILLATION FREQUENCY ADJUSTMENT (RV503)

- 1. Receive a monoscope signal.
- Connect pin-① of IC502 to ground with 100μF/16V electrolytic capacitor.
- 3. Adjust RV503 (H.FREQ) so that the screen streaming to stops.



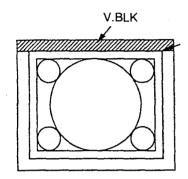
### SCREEN PHASE ADJUSTMENTS (RV502, RV512, RV516)

- 1. Receive a monoscope signal.
- 2. Set U/S (Under Scan) switch to Under mode. Set U/S 4:3/16:9 SW to 4:3 mode.
- 3. CONTRAST ..... Minimum
  - BRIGHTNESS ...... Maximum.
- 4. Adjust RV512 (U/H. SIZE) so that the white frame of monoscope signal becomes visible.
- 5. Adjust RV516 (H.BLK) for minimum BLKG width so that all the deflection area becomes visible.
- 6. Adjust RV502 (VIDEO PHASE) so that the monoscope's white frames should have equal width.



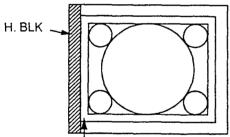
### H.V BLK ADJUSTMENTS (RV501,RV516)

- 1. Receive a monoscope signal.
- Set U/S (Under Scan) switch to Under mode. Set U/S 4:3/16:9 SW to 4:3 mode.
- 3. CONTRAST ..... Minimum
  - BRIGHTNESS ...... Maximum.
- 4. V. BLK Adjustment (RV501)
- (l) Adjust RV501(V. BLK) so that the upper side white frame of monoscope signal is not blanked.



Make not to blank the upper side white frame of monoscope signal.

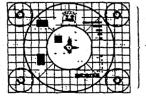
- H. BLK Adjustment (RV516)
- (l) Adjust with RV516 (H. BLK) so that the left end white vertical line of the white frame of monoscope signal is not blanked as following figure.



Make not to blank the left end white vertical line of the white frame of monoscope signal.

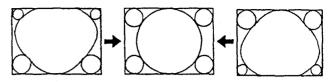
# VERTICAL DEFLECTION PART ADJUSTMENTS (RV504, RV505, RV507, RV517, RV518)

- 1. Receive a monoscope signal.
- 2. CONTRAST ......70%
  - BRIGHTNESS ......50%
- 3. Adjust RV505 (V. SIZE) so that the vertical size of monoscope signal becomes 12 frames.

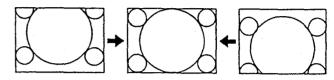


12 frames

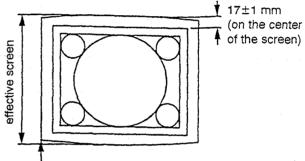
4. Adjust RV507 (V.LIN) the vertical linearity.



5. Adjust RV504 (V. CENT) the vertical position.



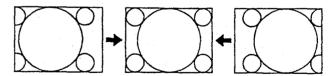
- 6. 16:9/V.SIZE ADJUSTMENT (RV518)
- (1) Set U/S (Under Scan) switch to Under mode.
- (2) Set 16:9/4:3 switch to 16:9 mode.
- (3) Adjust the 16:9/V.SIZE with RV518 (16:9/V.SIZE) as follows.



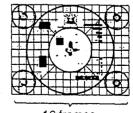
Screen is not wane on the four corners.

# HORIZONTAL DEFLECTION PART ADJUSTMENTS (RV508, RV509, RV511, RV514, RV515, RV801/P board)

- 1. Receive a monoscope signal.
- . CONTRAST ......70%
  - BRIGHTNESS ......50%
- 3. H. CENT Adjustment (RV801 on P board)
- (1) Adjust RV801 on P board (H. CENT) the horizontal position.



- 4. H. SIZE Adjustment (RV511)
- (1) Adjust RV511 (H. S1ZE) the horizontal size of 16 frames of monoscope signal.



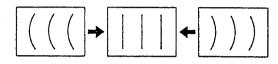
5. PIN AMP. PIN PHASE, V. ANG, BOW ADJUSTMENTS (RV508 RV509, RV514, RV515)

Adjust RV514 (V. ANG) and RV515 (BOW) to correct vertical angular distortion and bow distortion. Adjust RV509 (PIN AMP) and RV508 (PIN PHASE) so that vertical lines become straight.

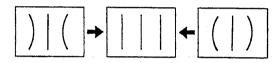
V. ANG (RV514)



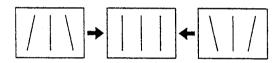
BOW (RV515)



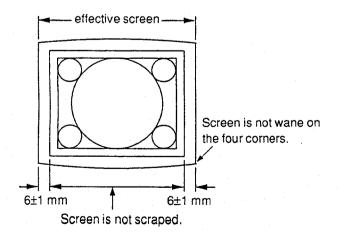
PIN AMP (RV509)



PIN PHASE (RV508)

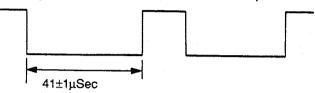


- 6. H. SIZE ADJUSTMENT (RV511)
- (1) Adjust RV511 (H. SIZE) so that the horizontal size becomes  $16 \pm 0.2$  frames.
- 7. UNDERSCAN MODE H.SIZE ADJUSTMENT (RV512)
- (1) Set U/S (Under Scan) switch to Under mode.
- (2) Adjust RV512 (U/H. SIZE) the Under H. SIZE as shown in the figure.

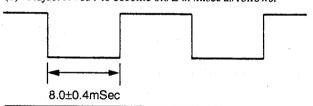


### **HVDELAY ADJUSTMENT (RV831, RV832)**

- 1. Receive a monoscope signal.
- 2. CONTRAST ......70%
  - BRIGHTNESS ......50%
- 3. Set H V DELAY switch to DELAY mode.
- 4. H. DELAY Adjustment (RV832)
- (1) Connect an oscilloscope to pin-4 of IC831.
- (2) Adjust RV832 (H. DELAY) to becomes 41 ± 1 μsec.



- 5. V. DELAY Adjustment (RV831)
- (l) Connect an oscilloscope to pin-9 of IC833.
- (2) Adjust RV831 to become  $8.0 \pm 0.4$ msec as follows.



### SHUT-DOWN VOLTAGE ADJUSTMENT (RV1602)

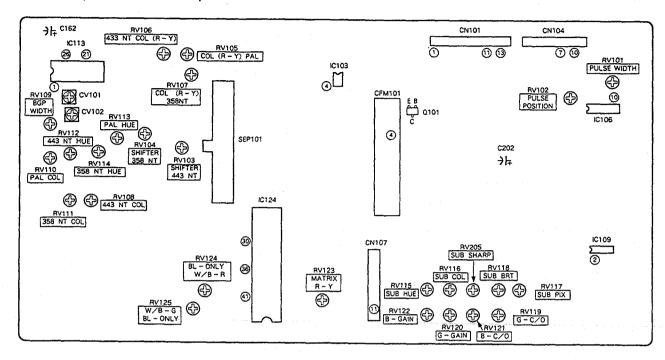
- 1. Fully rotate RV1602 in the direction that does not shut-down.
- 2. Supply a 9.4V  $_{-0}^{+0.1}$ V voltage to the C1602 side of L1602 on the D board.
- 3. Turn AC power switch ON.
- 4. Rotate D board RV1602 (SHT DOWN) slowly to the point that shuts-down the unit.

# B+ VOLTAGE DURING DC OPERATE MODE, ADJUSTMENT (RV1601)

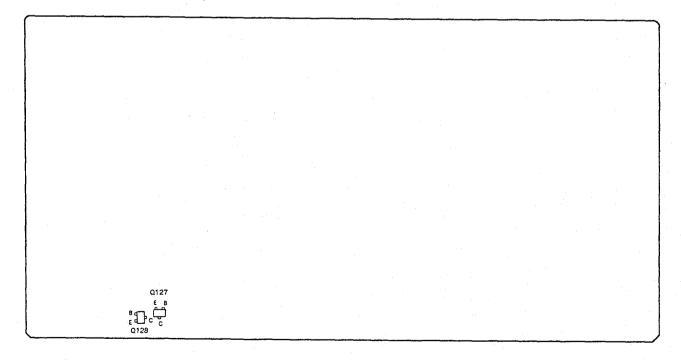
- 1. Supply DC12V±0.2V to DC 12V IN connector.
- 2. Receive a monoscope signal.
- 8. CONTRAST ......80%
  - BRIGHTNESS ......50%
- 4. Connect a digital voltmeter to C1605 + positive side on D board.
- 5. Adjust RV1601 on the D board for 40.0±0.1V DC.

### 5-2. B BOARD ADJUSTMENT

-B BOARD (COMPONENT SIDE)-

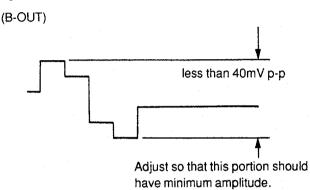


-B BOARD (CONDUCTOR SIDE)-

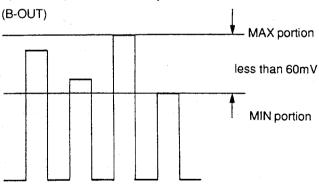


# PRIMARY COLOR MATRIX ADJUSTMENT (RV115, RV116, RV123)

- Supply component color bar signal (75% drroma color bar) to the
  equipment so that Y signal is supplied to EXT SYNC and R-Y signal
  to R-Y connectors Operate the equipment in external sync mode.
- Connect oscilloscope to IC124 pin-39 (B-OUT).
- Adjust RV115 (SUB HUE) to obtain the Blue output as shown in figure.

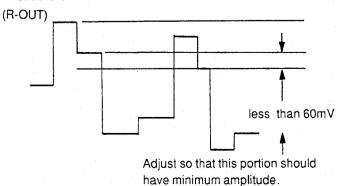


- 4. Supply component color bar signal (75% color bar) to the component input connector to feed R-Y and B-Y signals. Operate the equipment in internal SYNC mode.
- Connect oscilloscope to IC124 pin- (SUB-COL). Adjust RV116 (SUB-COL) so that waveform peaks should have the same level.



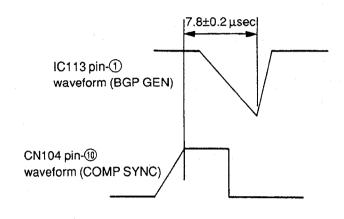
(Adjust so that the first and the 4th peaks should have the same level.)

- 6. Connect oscilloscope to IC124 pin-41 (R-OUT).
- 7. Adjust RV123 ((R-Y)-IN) so that waveform peaks should have the same level.



### **BURST GATE PULSE WIDTH ADJUSTMENT (RV109)**

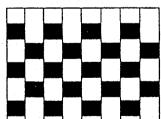
- 1. Receive color bar signal.
- Connect dual trace oscilloscope to CN104 connector pin-<sup>®</sup>
  (COMP-SYNC) and IC113 (M51279) pin-<sup>®</sup> (BGP-WIDTH).
  Adjust RV109 (BGP-WIDTH) to obtain the relationship as shown in the figure.



### VXO ADJUSTMENT (CV101, CV102)

- 1. 3.58MHz VXO adjustment (CV101)
- (1) Receive NTSC color bar signal.
- (2) Connect +5V power line to IC113 pin-<sup>®</sup> (ID-FILT-REF) via a 4700Ω resistor.
- (3) Ground IC109 pin-2 by connecting it to ground.
- (4) Ground C162 negative side by connecting it to ground.
- (5) Connect frequency counter to IC113 pin-②. Adjust CV101 (358FO) for 3579545±20Hz.
  (This adjustment can be alternatively done by observing screen as below.)

Adjust color synchronization by CV101 (358FO).



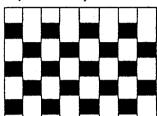
Adjust so that color stripes disappear and the hue change is stabilized extremely.

### PVM-9041QM/9044QM

- 2. 4.43MHz VXO adjustment (CV102)
- (1) Receive PAL colour bar signal.
- (2) Connect +12V power line to IC109 pin-2.
- (3) Connect frequency counter to IC113 pin-②. Adjust CV102 (443FO) for 4433619±20Hz.

  (This adjustment can be alternatively done by observing screen as

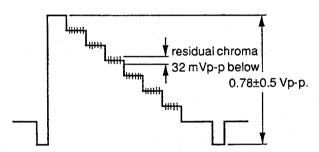
Adjust colour synchronization by CV102(443FO).



Adjust so that colour stripes disappear and the hue change is stabilized extremely.

# NTSC COMB FILTER ADJUSTMENT (RV1,T1/CFM101 BOARD)

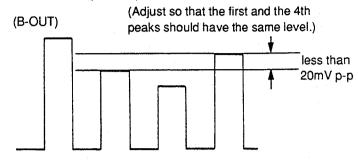
- 1. Receive NTSC 3.58 color bar signal.
- 2. Connect an oscilloscope to C202 negative side.
- 3. Confirm the YOUT is 0.78±0.5 Vp p.
- Confirm the residual chroma is 32 mVp-p below. If it is above 35 mVp-p, adjust with RV1 and T1 on CFM101 board while tracking



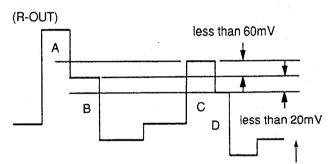
# NTSC COLOR DEMODULATION ADJUSTMENT (RV114,RV111,RV104,RV107)

- 1. NTSC 3.58MHz HUE adjustment (RV114)
- (1) Supply NTSC color bar signal including burst and R-Y component. (For example, Tektronix 1410SG output color bar signal with B-Y component removed.)
- (2) Connect an oscilloscope to Q128 emitter (B-Y OUT).
- (3) Adjust RV114 (358NT HUE) so that all the waveform peaks should have equal amplitude (look flat) except burst. (Level difference should be less than 10mV p-p.)

- 2. NTSC 3.58MHz COLOR adjustment (RV111)
- (1) Receive NTSC 3.58 color bar signal.
- (2) Connect an oscilloscope to IC124 pin-39 (B-OUT).
- (3) Adjust RV111(358NT-COL) so that waveform peaks should have the same level (most flat).



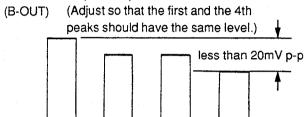
- 3. NTSC 3.58MHz COLOR (R-Y) adjustment (RV104, RV107)
- (1) Receive the color bar signal.
- (2) Connect an oscilloscope to the Q127 emitter (R-Y OUT), and adjust RV104 (358NT-SHIFT) so that the output of the burst section (B-Y axis signal output) becomes 0.
- (3) Connect an oscilloscope to IC124 pin- (R-OUT). Adjust RV107 (358NT-COL (R-Y)) so that the level difference should be minimum.



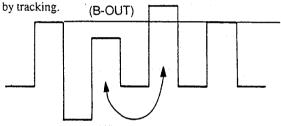
(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

# NTSC 4.43MHZ COLOR DEMODULATION ADJUSTMENT (RV108,RV112,RV103,RV106)

- 1. NTSC 4.43MHz COLOR adjustment (RV108,RV112)
- (1) Receive NTSC 4.43 color bar signal (75% color bar).
- (2) Connect an oscilloscope to IC124 pin-30 (B-OUT).
- (3) Adjust RV108 (443NT-COL) so that waveform peaks should have the same level (most flat).

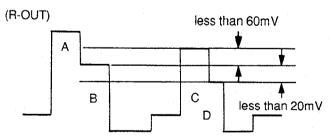


(4) When cyan and magenta have level difference, adjust RV112 (443NT-HUE) and RV108 (443NT-COL) alternatively to remove,



When cyan and magenta have level difference, adjust RV112 and RV108 alternatively to remove.

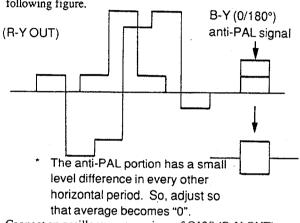
- 2. NTSC 4.43MHz COLOR (R-Y) adjustment (RV103, RV106)
- (1) Receive the NTSC 4.43 color bar signal (75%, chroma color bar).
- (2) Connect an oscilloscope to the Q127 emitter (R-Y OUT), and adjust RV103(443NT-SHIFT) so that the output of the burst section (B-Y axis signal output) becomes 0.
- (3) Connectan oscilloscope to IC124 pin-(1) (R-OUT). Adjust RV106 (443NT-OL (R-Y)) so that the level difference should beminimum.



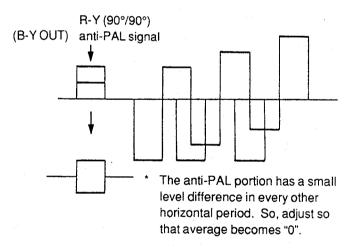
(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

# PAL COLOR DEMODULATION ADJUSTMENT (RV113, RV2/SEP101, RV110, RV105)

- 1. PAL PHASE Adjustment (RV113,RV2/SEP101)
- (1) Receive the special PAL color-bar.
- (2) Connect an oscilloscope to emitter of Q127 (R-Y OUT).
- (3) Adjust RV113 (PAL-PHASE) so that B-Y (0/180°) anti-PAL portion (in the R-Y demodulated output) becomes "0" (flat) as following figure.



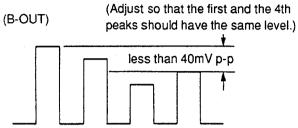
- (4) Connect an oscilloscope to emitter of Q128 (B-Y OUT).
- (5) Adjust RV2 inside SEP101 so that R-Y (90°/90°) anti-PAL portion (in B-Y demodulated output) becomes "0" (flat) as following figure.



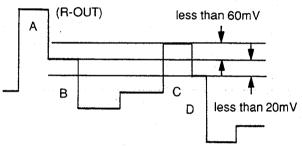
For the adjustments of (3) and (5), it is also possible to set the color level to MAX with the chroma adjusting knob of the unit and erase the color of the anti-pal signal section.

### PVM-9041QM/9044QM

- 2. PAL COLOR ADJUSTMENT (RV110)
- (1) Receive PAL color bar signal (75% color bar).
- (2) Connect an oscilloscope to IC124 pin-30 (B-OUT).
- (3) Adjust RV110 (PAL-COL) so that waveform peaks should have the same level (most flat).



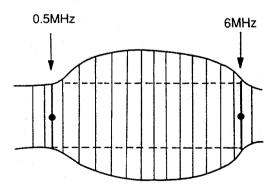
- 3. PAL-COLOR-(R-Y) ADJUSTMENT (RV105)
- (1) Connect an oscilloscope to IC124 pin-4 (R-OUT).
- (2) Adjust RV105 (PAL-COL-(R-Y)) so that waveform peaks should have the same level (most flat).



(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

### SUB-SHARP ADJUSTMENT (RV205)

- (1) Receive a sweep signal (or multi-burst).
- Bandwidth should be more than 10MHz (flat).
  - · Composite sync should be included.
  - Turn burst off.
- (2) Connect an oscilloscope to IC124 pin-36 (G-OUT).
- (3) Adjust RV205 (SUB-SHARP) as shown.



Example of sweep signal output waveform

[specification] 6MHz/0.5MHz=0±0.5dB

# CHROMA H PULSE POSITION ADJUSTMENT (RV101,RV102)

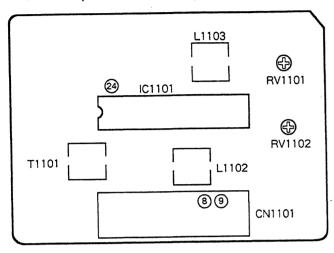
- (1) Receive the SECAM color bar signal.

  (The left edge of the screen should not be colored.)
- (2) Set to the under-scan mode.
- (3) Adjust RV101 (PLUSE-WIDTH) until the point immediately before the color on the left edge of the screen disappears.
- (4) Release the under-scan mode.
- (5) Set the HV DELAY mode.
- (6) Adjust RV102 (PULSE-POSI) untill the point immediately before the rising color of the image after back porch diappears.

Note: If image phase adjustment or HV DELAY amount adjustment during HV DELAY is performed after completing the adjustment in this section, re-adjustments will be required. Therefore, performed this adjustment after the two mentioned have been performed.

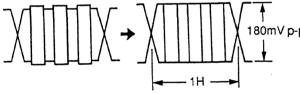
### 5-3. S BOARD ADJUSTMENTS

### -S BOARD (COMPONENT SIDE)-



### SECAM(T1101,L1102,L1103)

- 1. Receive SECAM color-bar.
- 2. Bell Filter Adjustment (T1101)
- (1) Connect an oscilloscope to IC1101 pin-24.
- (2) Adjust T1101 (Bell Filter) so that the chroma waveform becomes smooth. (Uneven level should be minimum.)



- 3. Color Balance Adjustment (L1102,L1103)
- (1) Connect an oscilloscope to pin- (R-Y) of CN1101 connector.
- (2) Adjust L1102 (R-Y) so that the non-colored portion level becomes flat.



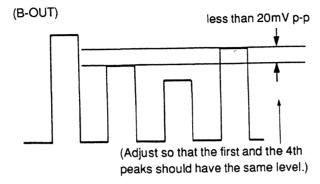
- (3) Connect an oscilloscope to pin-® (B-Y) of CN1101 connector.
- (4) Adjust L1103 (B-Y) so that the non-colored portion level becomes flat.



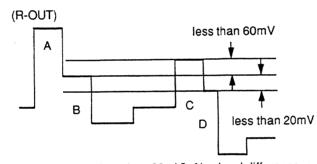
(5) When adjusting the color level of the unit to MAX or MIN using the chroma adjusting knob, check that the white balance of the colorless section does not change.

### DEMODULATIONLEVEL ADJUSTMENT (RV1101,RV1102)

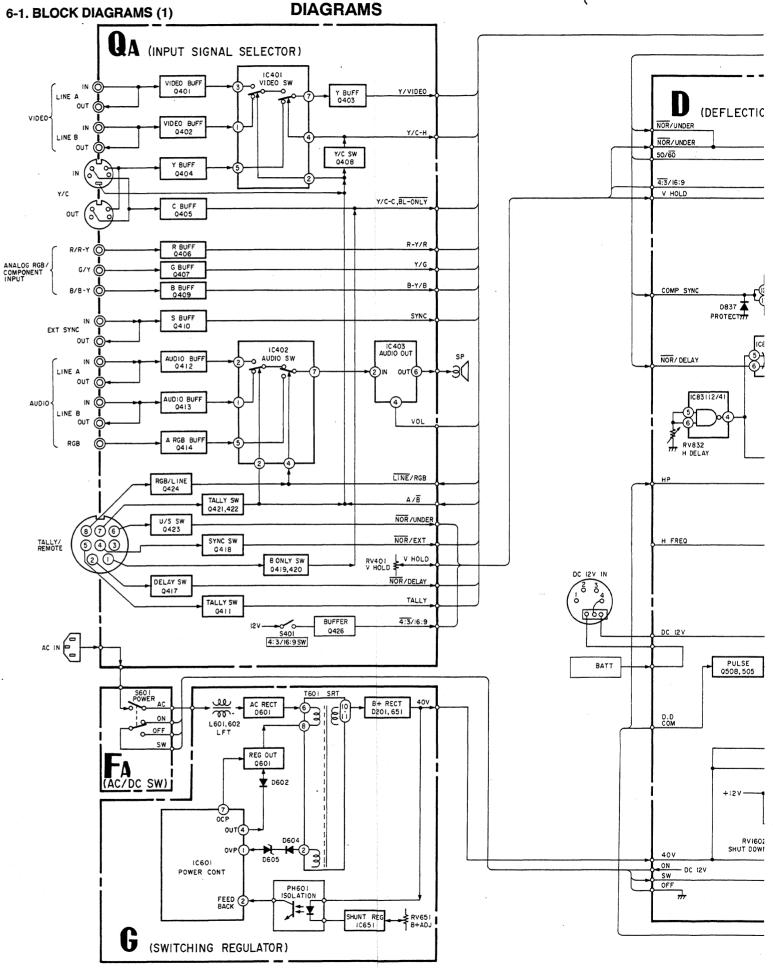
- 1. Receive SECAM color-bar.
- 2. Connect an oscilloscope to IC124 pin-39 (B-OUT).
- 3. Adjust S board RV1101 (SEC-COL) so that waveform peaks should have the same level (most flat).



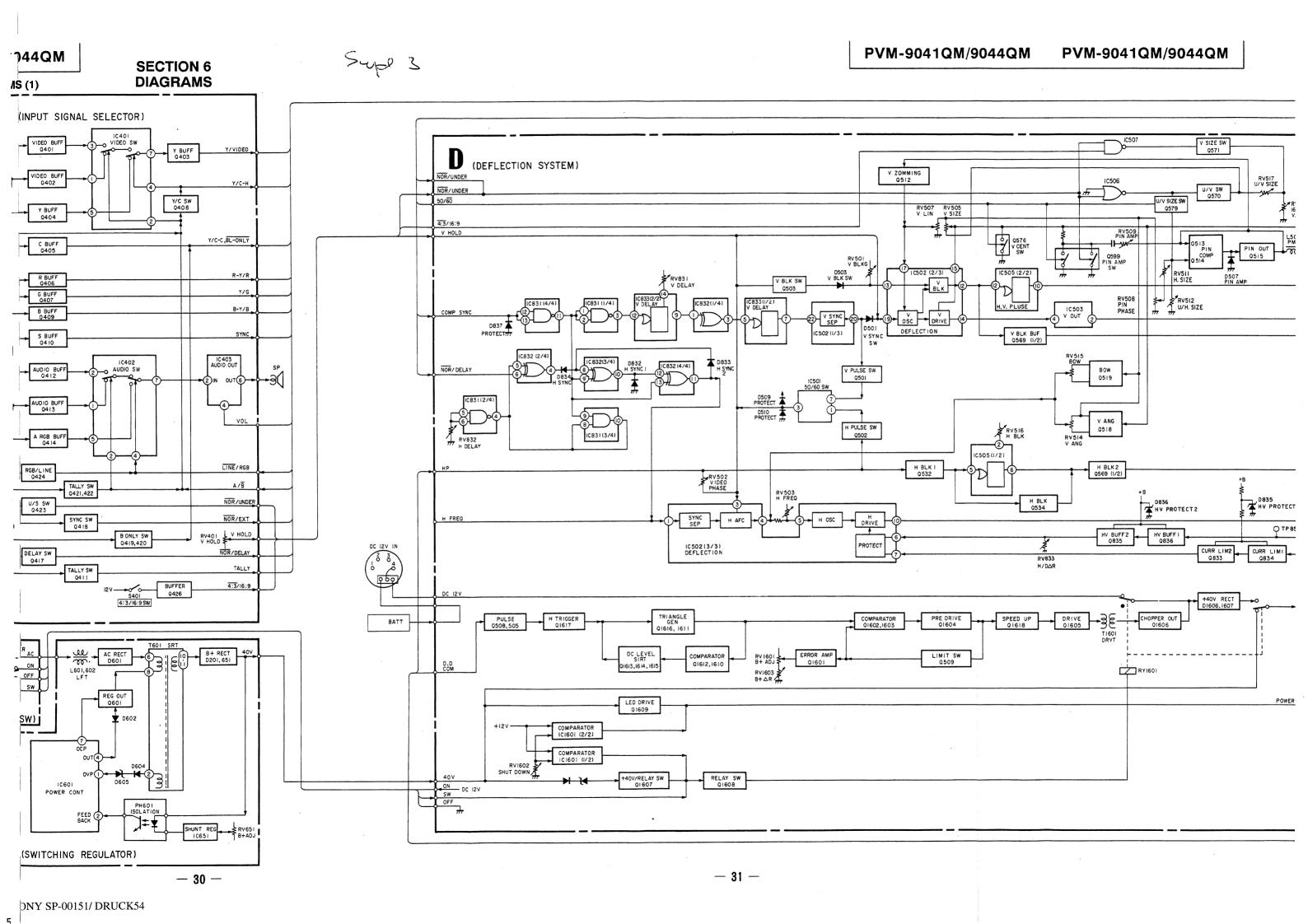
- 4. Connect an oscilloscope to IC124 pin-41 (R-OUT).
- 5. Adjust S board RV1102 (SEC-COL (R-Y)) so that the level difference should be minimum.

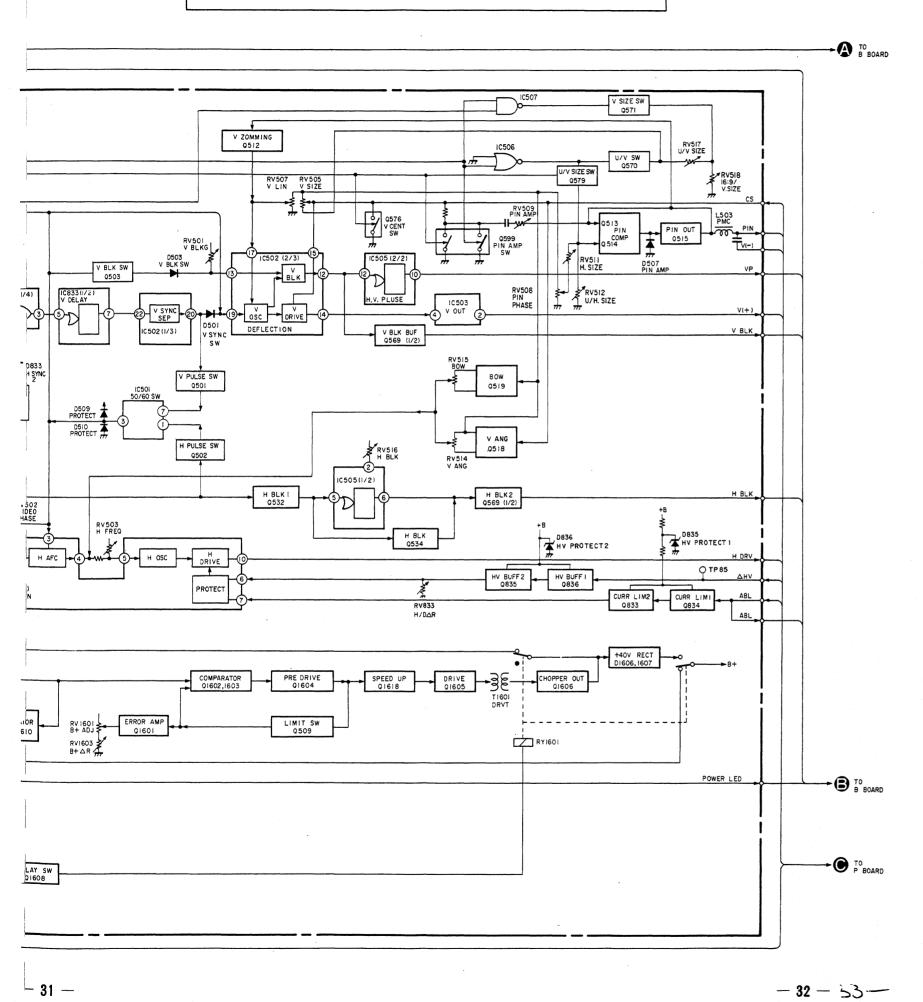


(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

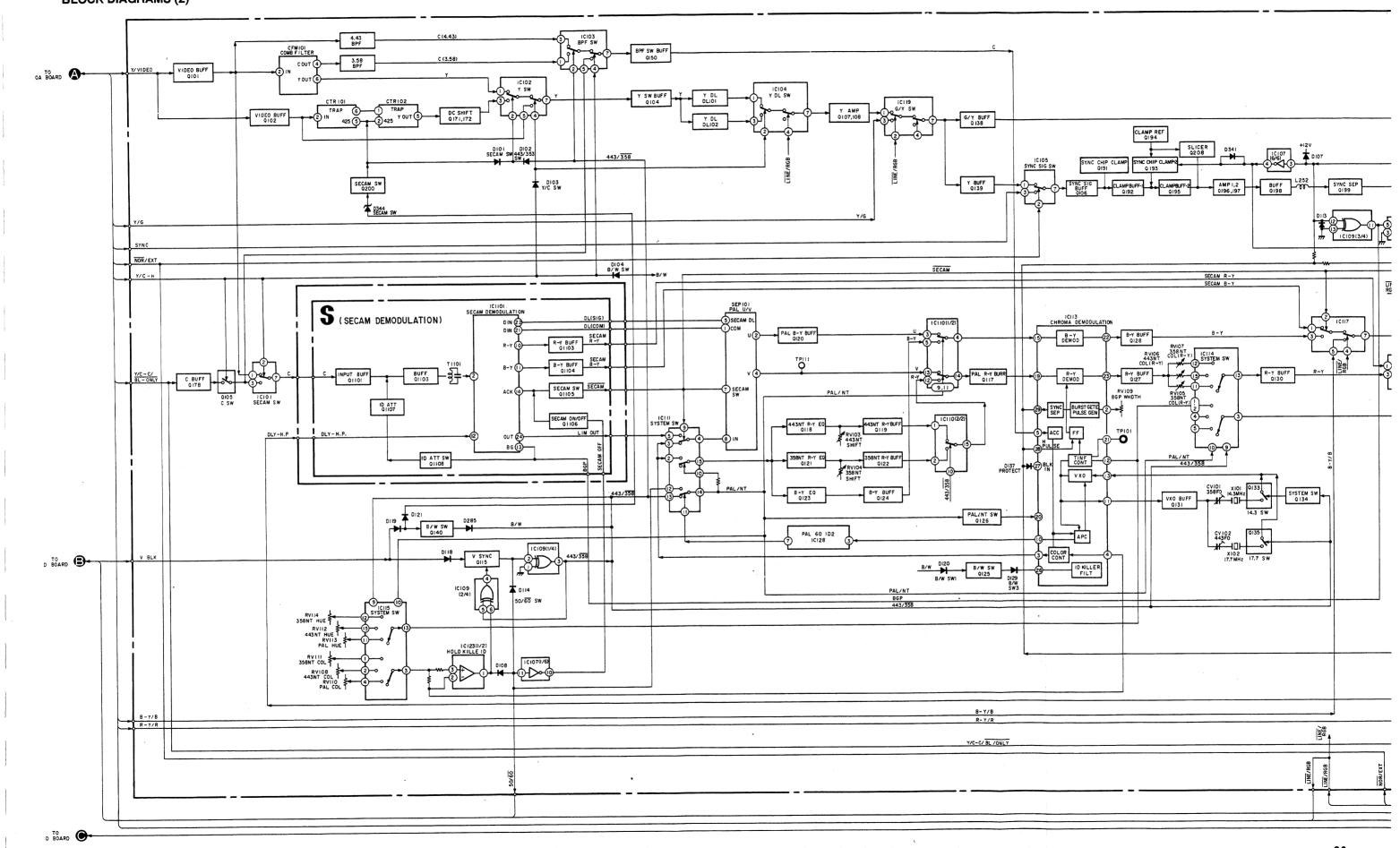


**— 30 —** 

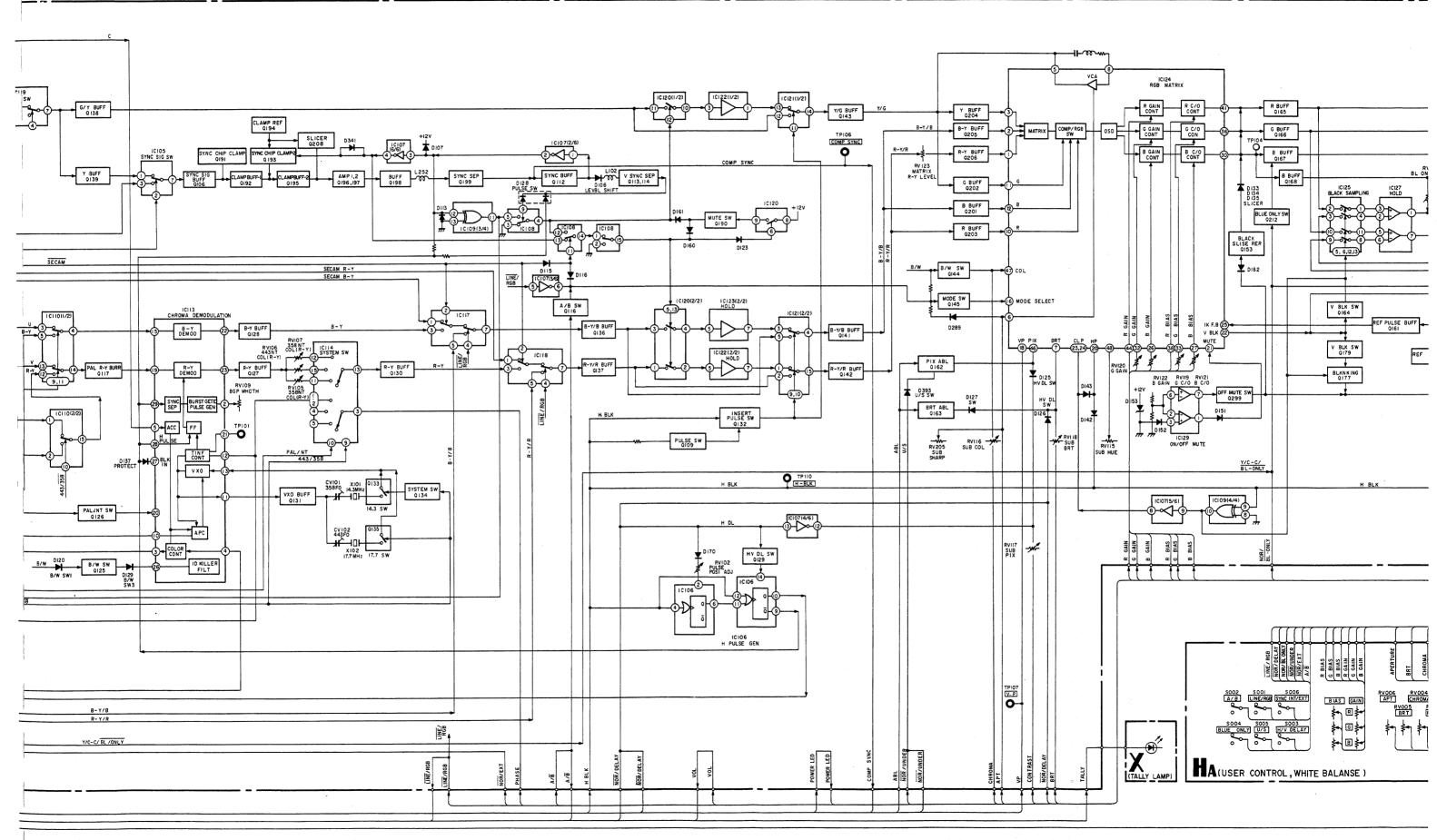


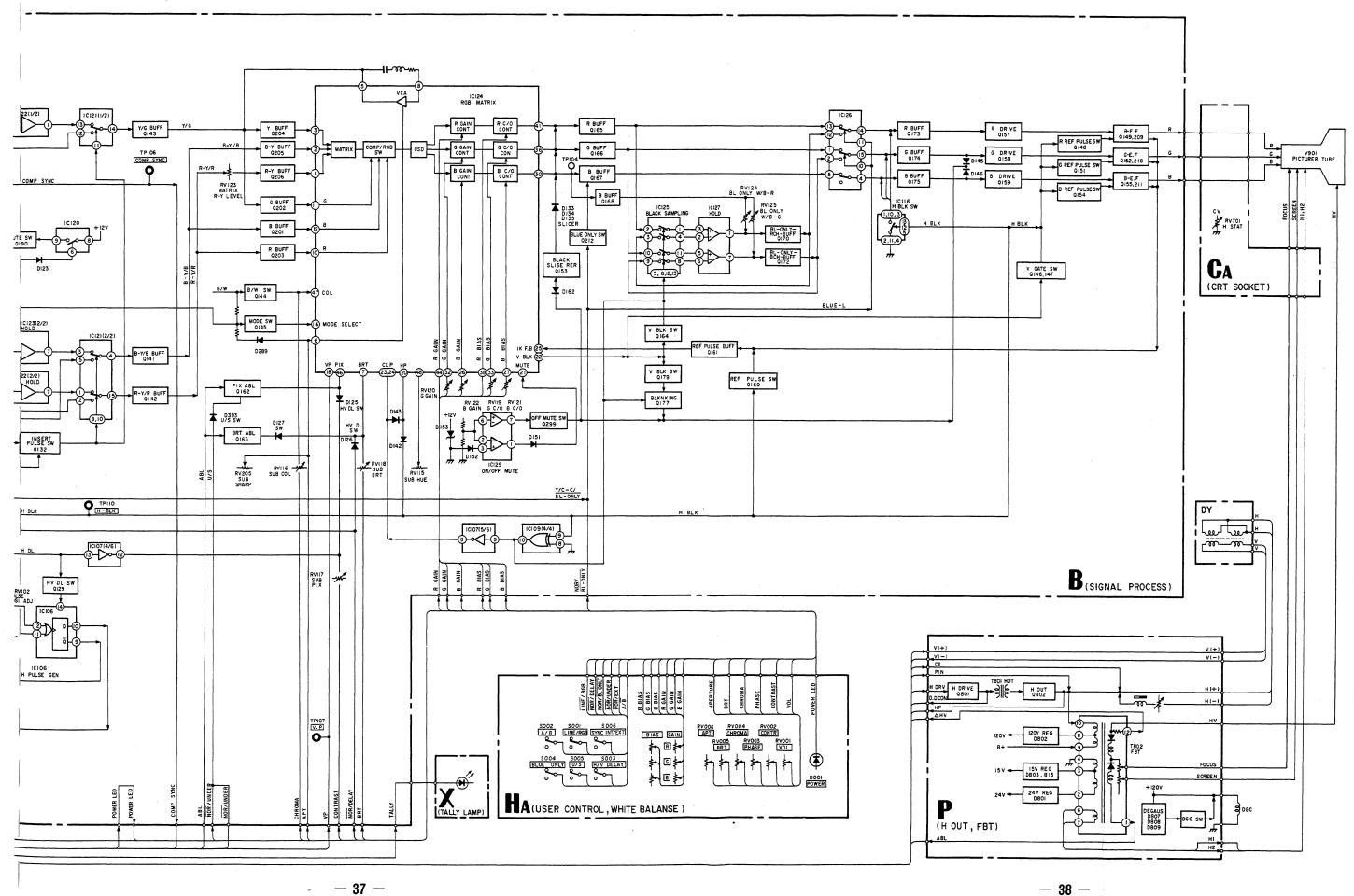


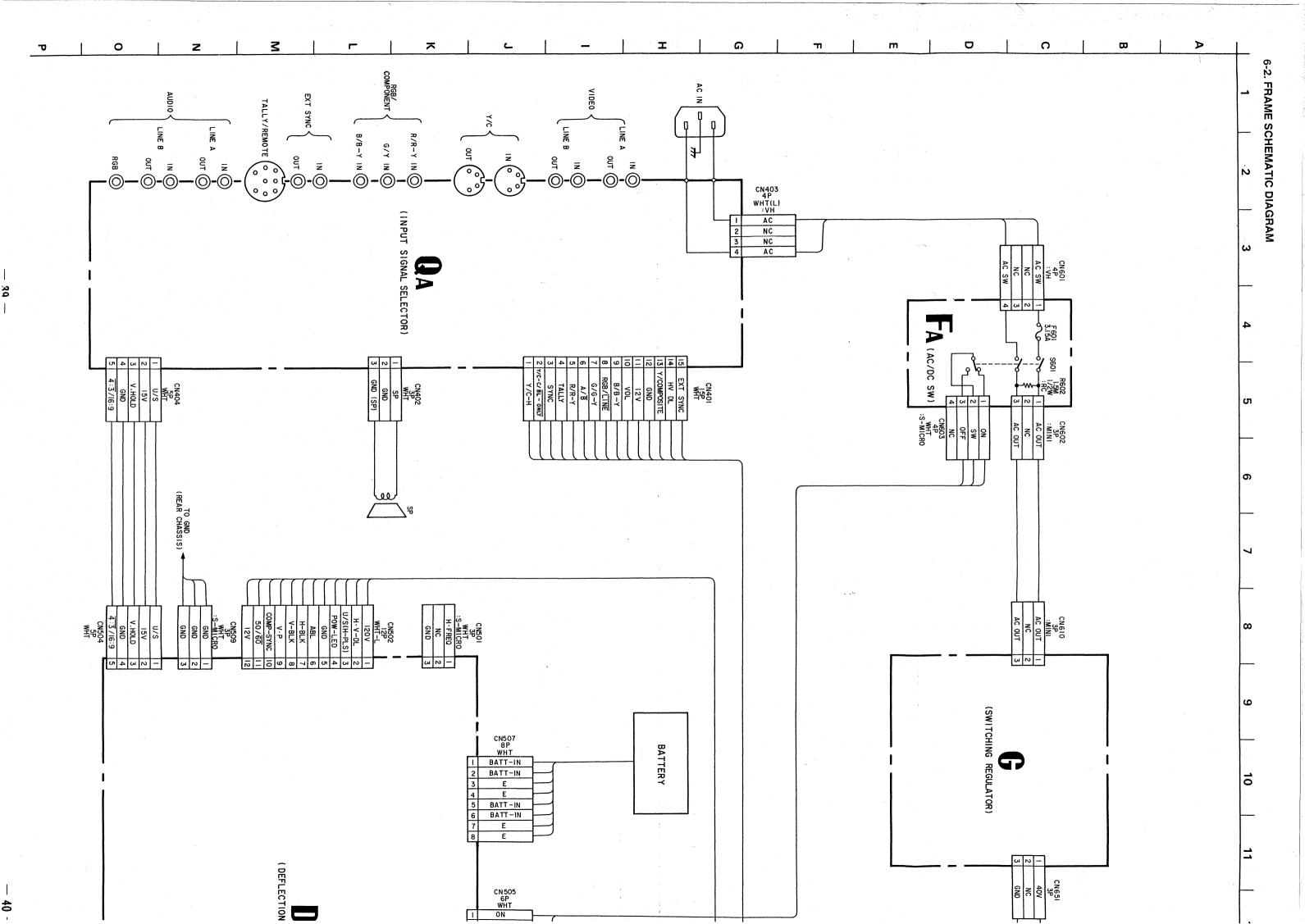
**BLOCK DIAGRAMS (2)** 



-34-

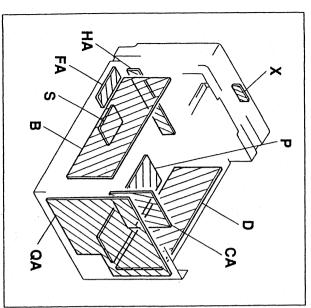






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# 6-3. CIRCUIT BOARDS LOCATION



# 6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

- All capacitors are in  $\mu F$  unless otherwise noted. pF:  $\mu \mu F$  50WV or less are not indicated except for
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power 1/4W

All resistors are in ohms.

m: nonflammable resistor.

- 子: fusible resistor
- : internal component.: panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

  The components identified by M in this basic schematic diagram have been carefully factoryselected for each set in order to satisfy regulations regarding X-ray radiation.

  Should replacement be required, replace only with the
- the necessary adjustments indicated. If results do not meet the specified value, change the component identified by **M** and repeat the adjustment until the profited value is positived. When replacing components identified by  $oldsymbol{\square}$ , make
- When replacing the part in below table be sure to parform the related adjustment. 19 and 20.) (Refer to RV651, RV1603 and RV833 adjust on Page

IC502, Q833, Q834, Q835, Q836, C519, C843, Q836, C519, C843, C844, C845, C846, C847, C848, RV833, R523, R850, R855, R856, R852, R853, R854, R856, R861, R857, R858, R859, R860, R861, R862, R863 — D BOARD NL801, T802, C814 — P BOARD	Q1601, Q1602, Q1603, D1601, D1602, D1603, D1622, C1601, C1602, R1603, R1602, R1603, R1604, R1605, R1606, R1630, R1608, R1628, R1629, R1630, RV1601, RV1603 — D BOARD	IC601, IC651, PH601, C654, R653, R655, R656, R657, RV651— G BOARD	Part replaced ( )
RV833 (HOLD-DOWN)	RV1603 (B+ MAX IN DC POWER INPUT MODE)	RV651 (B+ MAX)	Adjustment (14)

Vss ٥٥٨ z Z

D BOARI

- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise

9

 $\Theta$ 

D BOARD W

- Readings are taken with a color-bar signal input.
  Readings are taken with a PAL color-bar signal input.
  Light adjustment for repair.
  Voltage variations may be noted due to normal
- production tolerance.
- : B- bus.

- : signal path.

  No mark: with PAL color-bar signal received or common voltage.

(3)

6

- ) : with SECAM color-bar signal received.
  > : with NTSC 3.58 color-bar signal received.
  )) : with NTSC 4.43 color-bar signal received.
  ] : with S (Y/C) color-bar signal received.
  } : with analog RGB color-bar signal received.
  >> : with component color-bar signal received.

# Reference information RESISTOR : RN METAL FILM

: RC	SOLID
: FPRD	NONFLAMMABLE CARBON
: FUSE	NONFLAMMABLE FUSIBLE
: RS	NONFLAMMABLEWIREWOUND
: RB	NONFLAMMABLE CEMENT
COIL : LF-8L	MICRO INDUCTOR
CAPACITOR: TA	TANTALUM
: PS	STYROL
: PP	POLYPROPYLENE
: PT	MYLAR
: MPS	METALIZED POLYESTER
: MPP	METALIZED POLYPROPYLENE
: ALB	BIPOLAR
: ALT	HIGH TEMPERATURE

(3)

8

2.2Vp - p (V

(2)

: ALR

HIGH RIPPLE

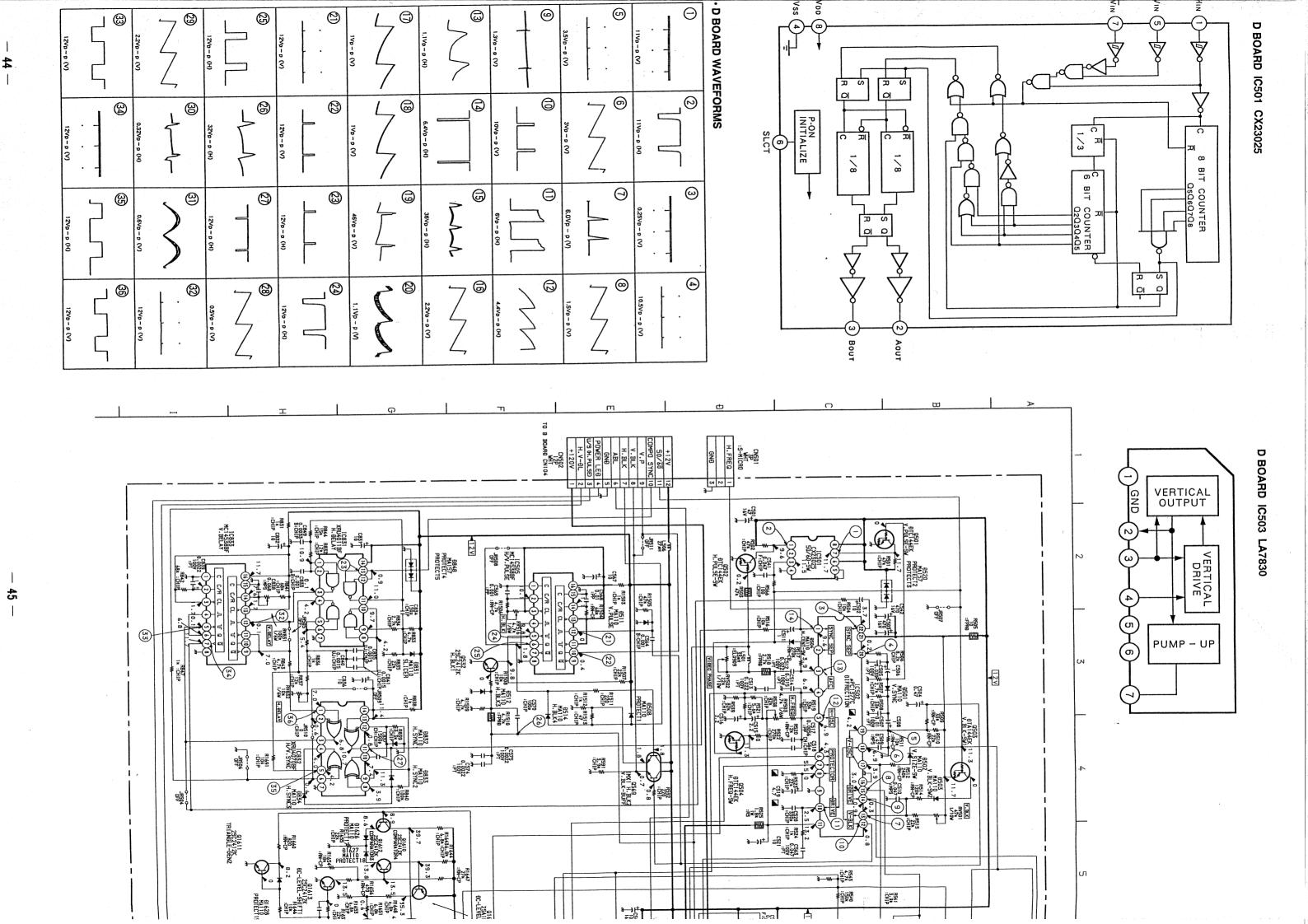
natic diagram



↑ FRAME board

Schematic diagram

D board →



+1 1050 1050

OSO1 OTC144EK V. PULSE-SW

44

oard +

tic diagram

ATURE

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1831 C832

IC833 MC14538BF V. BELAY

C6831 XRU4011BF C1643 2 C643 2

12V

PROTE PROTE

PASSES CONTRACTOR

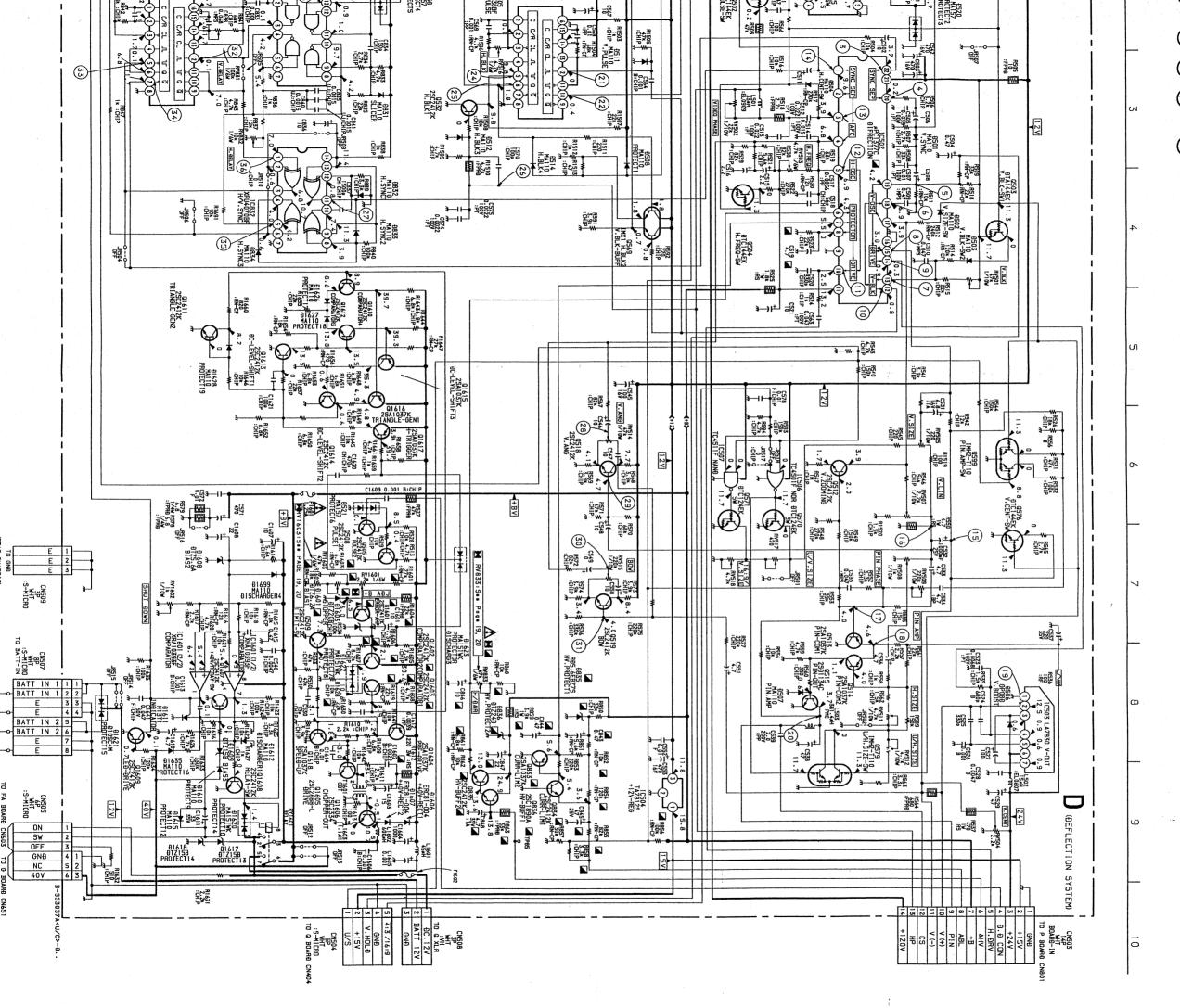
D BOARD IC503 LA7

VERTICAL OUTPUT

GND

45

ERTICAL DRIVE



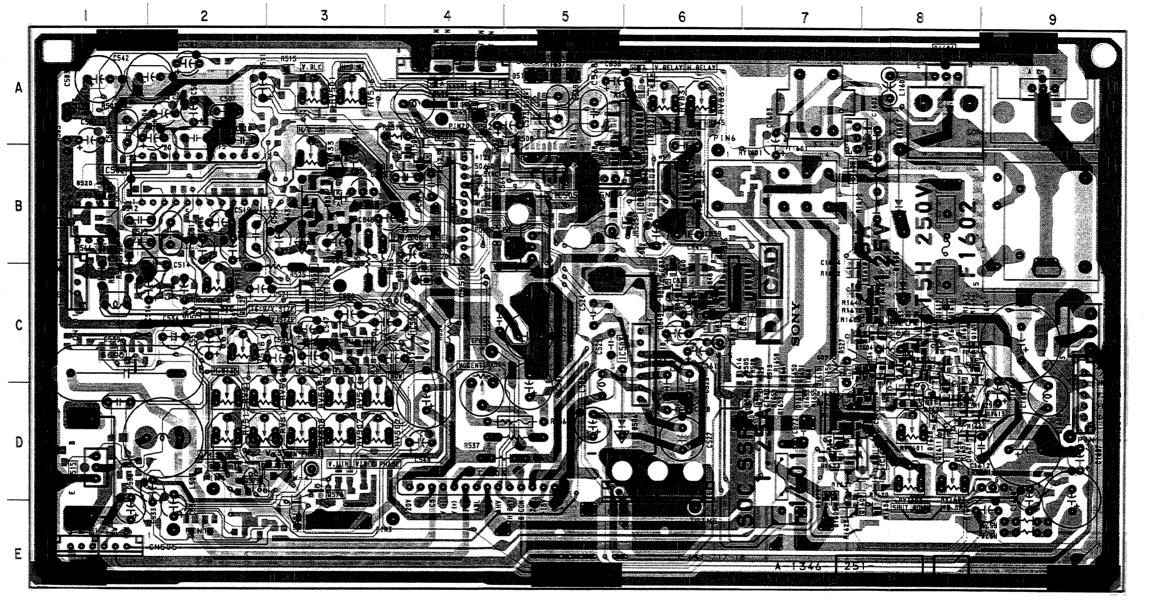
46



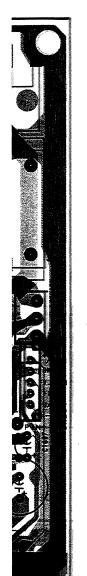
- D BOARD - (Component Side)

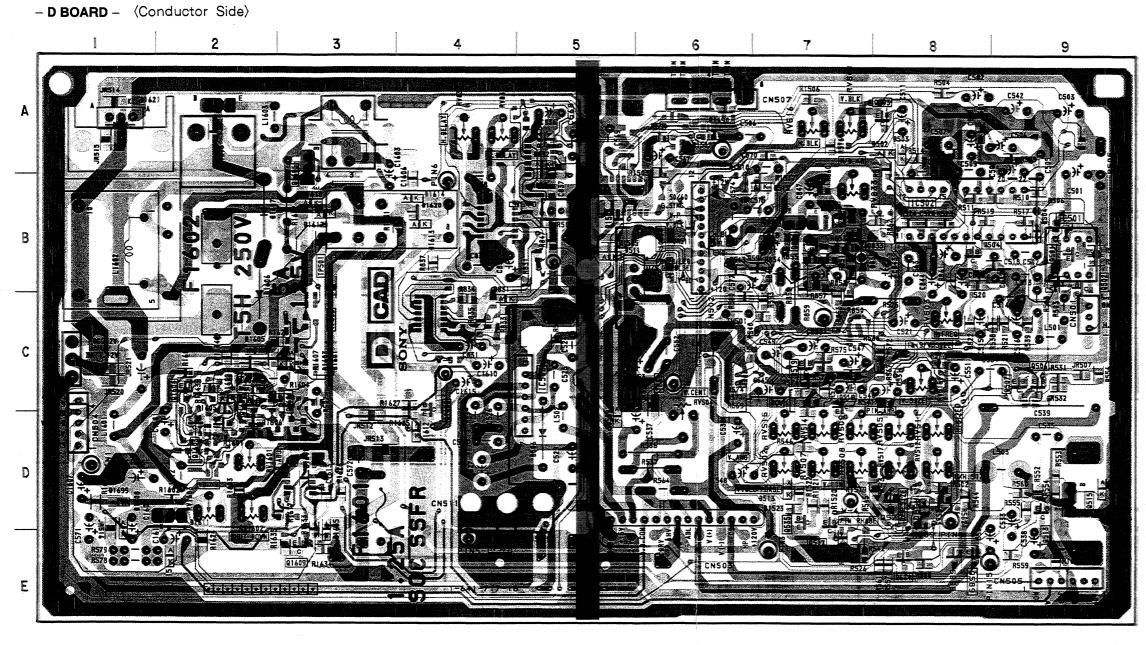
D BOARD	(Component	Side)
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1 5 3 3 3 3 3 3 3 7 7 7 7 9 9 9 9 9 9 9 9 9
33 35 33 33 37 77 77
3 3 3 3 3 3 3 7 7 7
5 5 3 3 3 3 7 7
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- D BOARD -

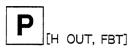




# D BOARD (Conductor Side)

			<del></del>
1	C	D835	B - 7
IC501	B-9	D1601 D1603	Ç-3 C-3
10502	B-8	D1603	
IC503	C-5	D1607	B – 2 B – 2
IC504	B-6	D1608	D - 1
TDANK	NOTOD	D1611	D - 2
IRANS	SISTOR	D1612	D - 4
Q501	B-9	D1615	E - 2
Q502	B-9	D1617	B - 3
0503	A - 8	D1618	B - 3
Q504	B-8	D1620	B - 4
0513	D-9	D1621	A - 1
Q514	E-8	D1622	C - 2
Q515	D-9	D1623	D-2
Q518	C-7	D1635	D - 3
Q519	C - 7	D1699	D - 1
Q570	D-8	VARI	ADI E
0833	B-7		
Q834	B-7	RESIS	STOR
Q835 Q836	B-7	RV501	A - 7
Q1601	B - 7 C - 2	RV502	D - 7
Q1602	C-2	RV503	C - 8
Q1603	D-2	RV504	C - 6
Q1604	C-2	RV505	D - 8
Q1605	A-3	RV507	D - 7
Q1606	A - 2	RV508	D - 7
Q1608	C-4	RV509	D - 7
Q1609	E-3	RV511	D - 8
		RV512	D - 8
DIC	DE	RV514	D - 7
D501	A - 8	RV515	D - 7
D502	A - 8	RV516	A - 7
D503	A - 8	RV517	D - 8
D504	B-9	RV518 RV831	C – 8 A – 4
D506	D-5	RV831	A – 4 A – 4
D507	D-9	RV833	B - 7
D511	B - 5	RV6101	D - 2
D831	C-4	RV1602	D - 2
D832	A - 5	RV1603	D - 2
L			

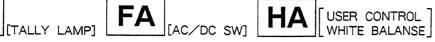
- Pattern from the side which enables seeing.
- Pattern of the rear side.









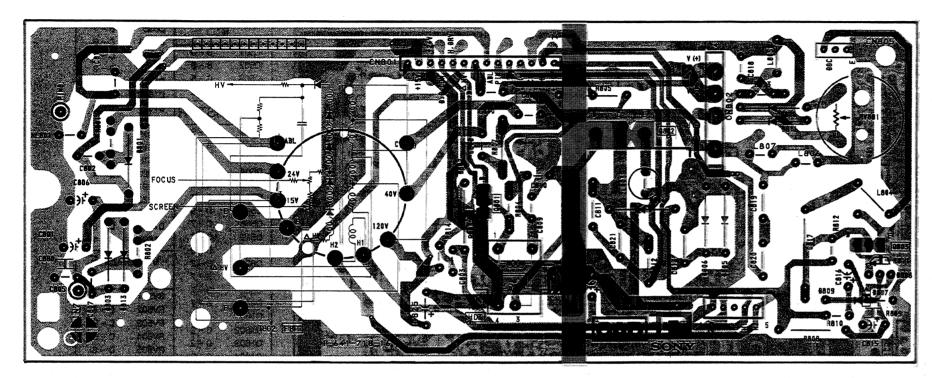




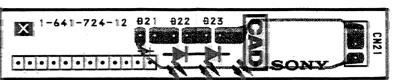




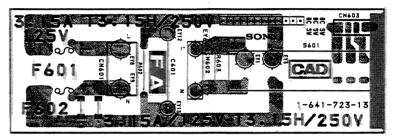
- P BOARD -



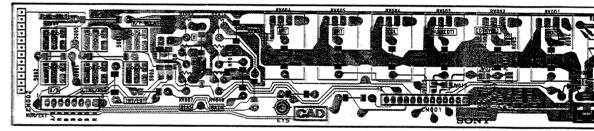
- X BOARD -



- FA BOARD -



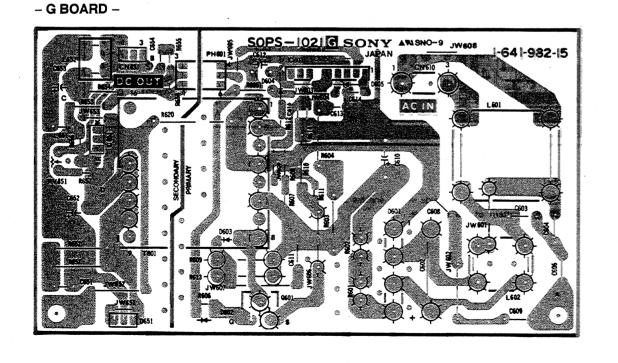
- HA BOARD -

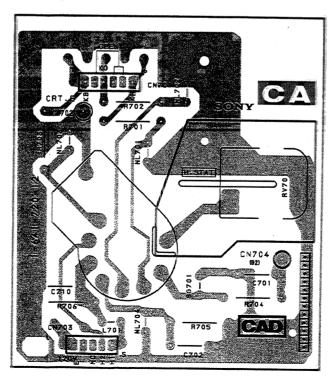


• Tattern from the side which enables seeing.

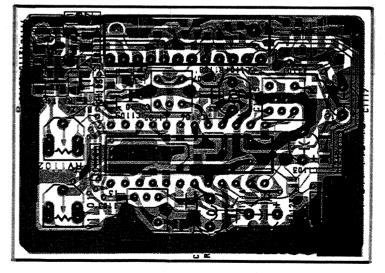
• Pattern of the rear side.

- CA BOARD -

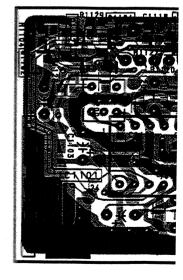




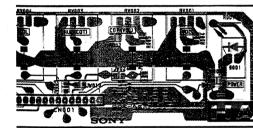
- S BOARD - (Component Side)



(Conductor Side)



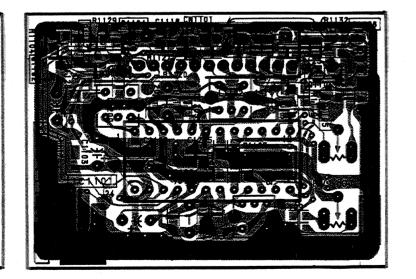




# QA BOARD

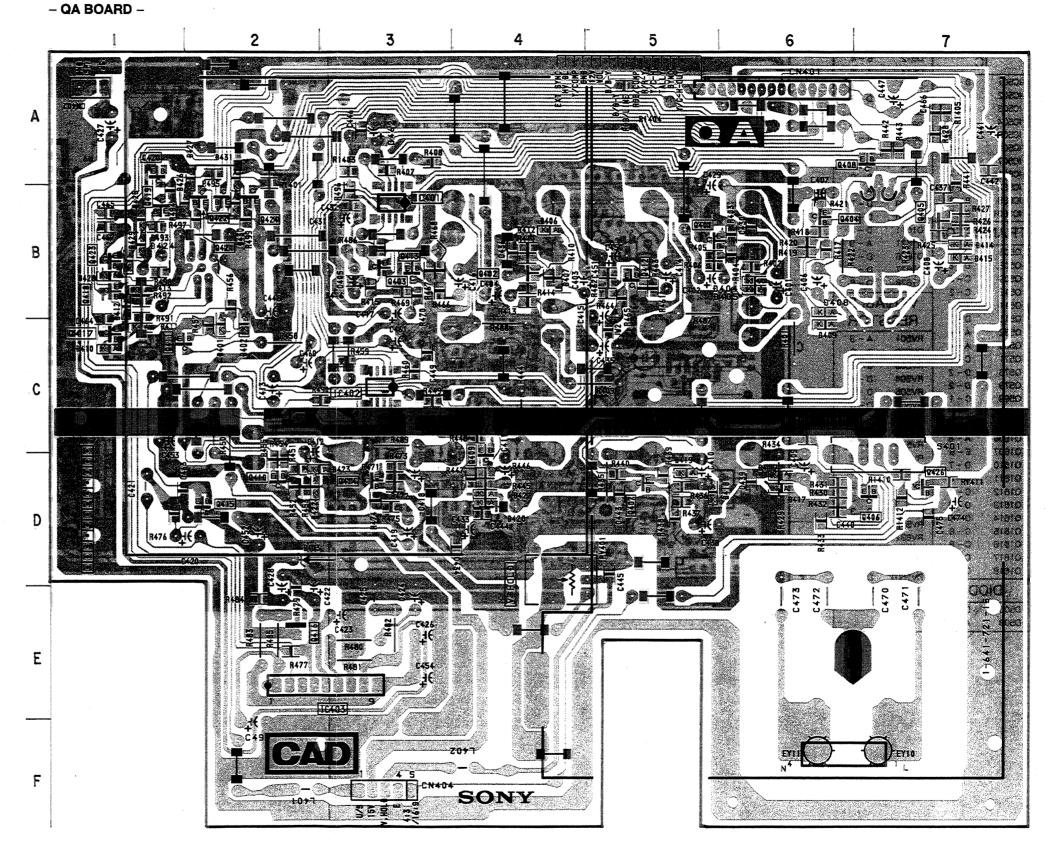
1	C ·	D403 D404	D-2
IC401	B-3		B-6
IC402	C-3	D405	B-6
IC403	E-3	D406	B - 4 B - 4
<b></b>		D407	B-4 B-6
TRAN	SISTOR	D408. D409	C-6
Q401	8-5	D410	C-1
0402	B - 4	D411	C-1
Q403	8-3	D412	B-1
Q404	8-6	D413	B-1
Q405	B-7	D414	B-7
Q406	D-7	D415	B - 7
Q407	D-5	D416	D-6
Q408	A-7	D417	D-6
Q409	C-4	D418	D-5
Q410	D - 2	D419	D-5
Q411	C-1	D420	D - 4
Q412	B - 5	D421	D-4
Q413	B - 3	D422	D-2
0414	D-3	D423	D-3
Q416	E - 2	D424	B-1
Q417	C-1	D425	B - 1
Q418	B - 1	D426	B - 1
Q419	B - 1	D427	A-2
Q420	A - 1	D428	B - 1
Q421	B-2	D429	B - 1
Q422	B - 2	D430	8 - 2
Q423	B - 1	D431	A - 2
Q424	B-2	1/ADI	ABLE
Q426	D-7		
			STOR
DIC	DDE	RV401	D-4
D401	C-2		
D402	C-2		

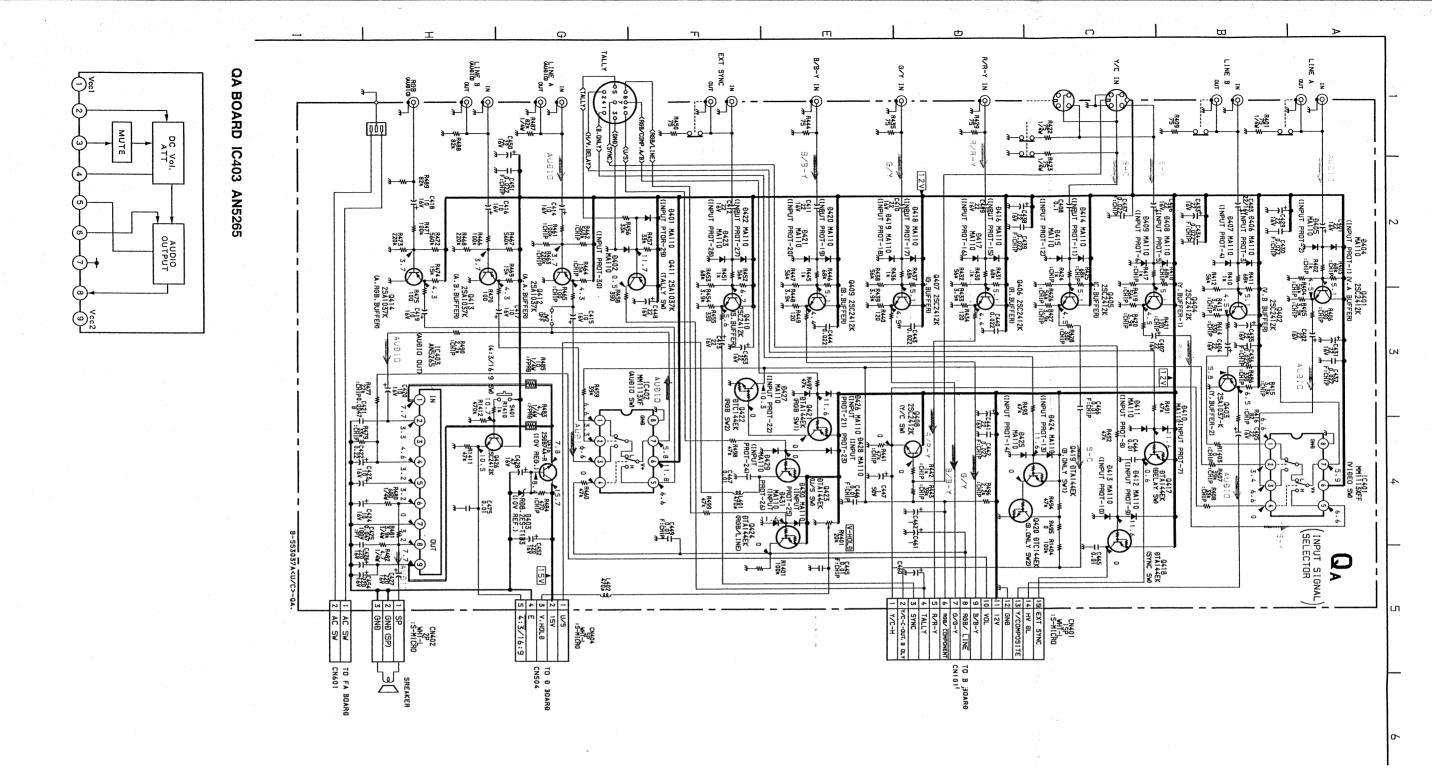
# (Conductor Side)



# Note:

- Pattern from the side which enables seeing.
- Pattern of the rear side.





BIAS BIAS BIAS OAIN OAIN GAIN

| RY008 | RY009 | RY010 | RY011 | RY012 | RY012 | RY013 | RY01

PHASE CHROKA BRT (APT)
RYDDS RYDD4 RYDD5 RYDD6
RYDD5 RYDD6

WHITE

121

B-553167A<AUS>-FA.

⊳

AC OUT

250V

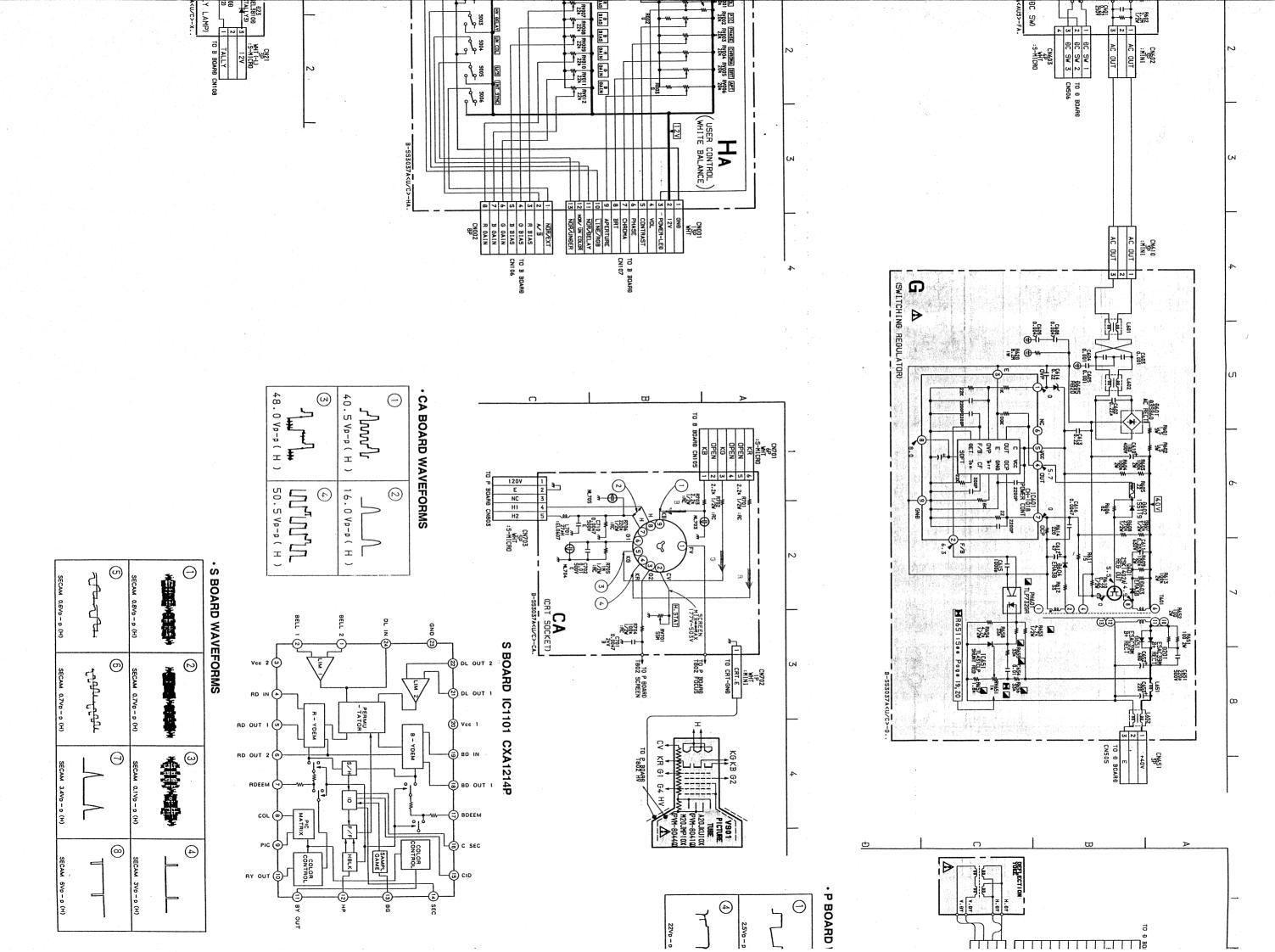
TO 9 BOARB

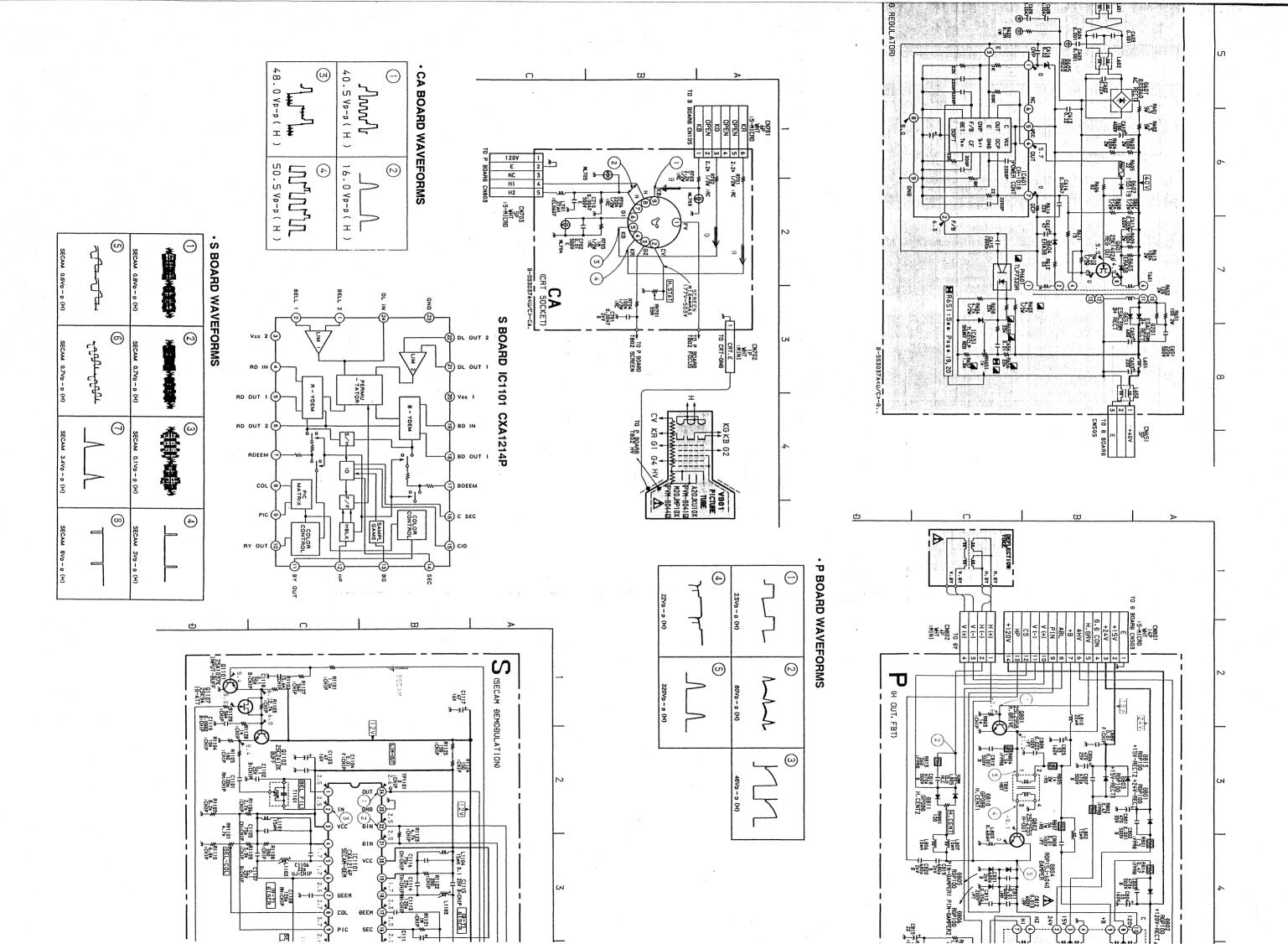


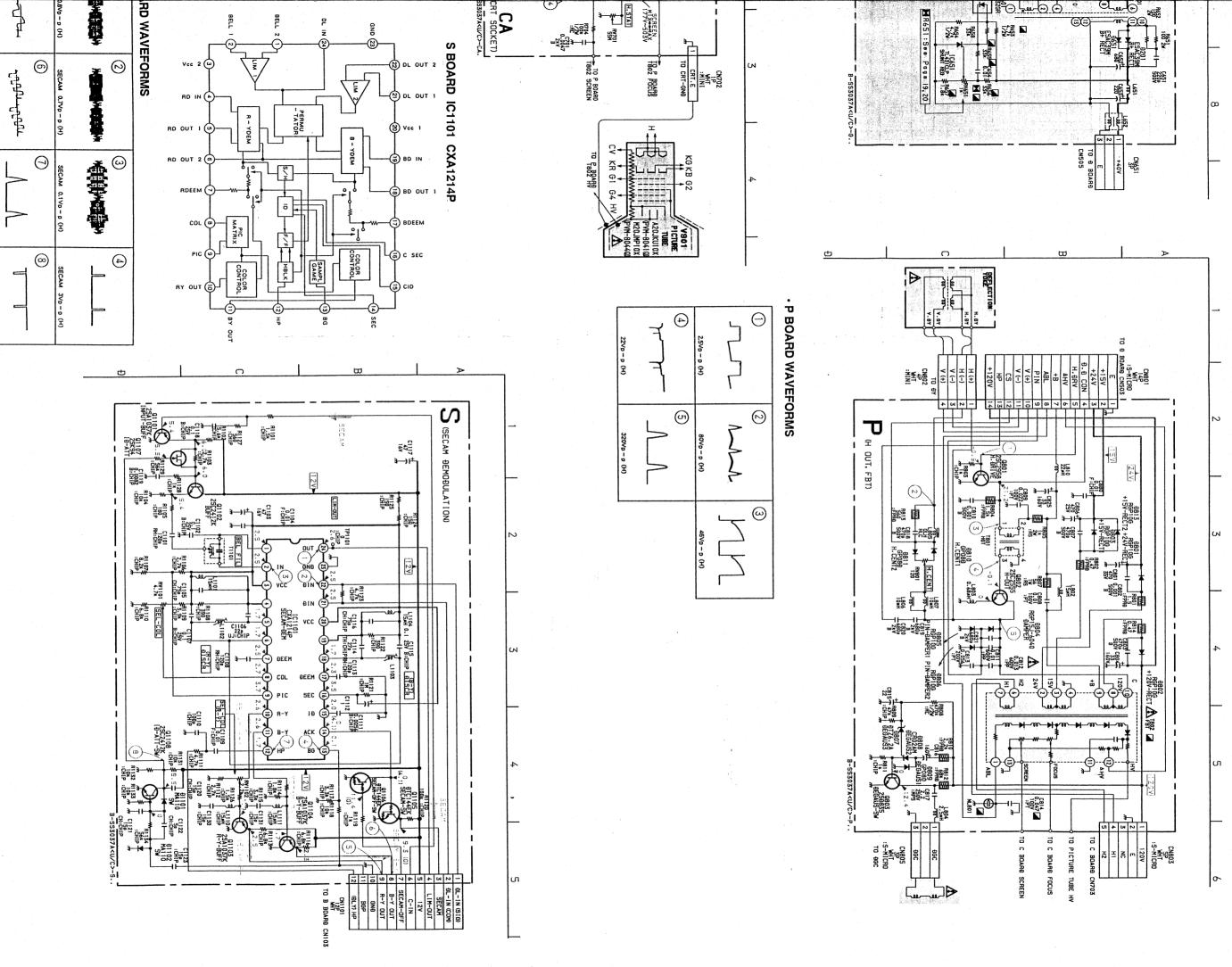
921 GALTAI GALTAI GALTAI GALTAI (TALLY2)

SEL 38109

(TALLY LAMP)







# B BOARD

GND 2
GND 1
GND 1
O REAR CHASSIS

1010; \$ 1010; 1010; \$ 1010;

- VCC - IN 3- G GND - 443 - G 425

III 9

NV3 FECAL SECAL

#11308 R106 20179772

C116 - C117

CNIO2 SHIT S-MICRO

100 H 100 H

(태)

As to the voltage value shown by the mark % on the Schematic Diagram, see another list.

# < TRANSISTOR >

Sign Significant Control of the Cont

2: 5 13/18 = 1240 = 3: 73 (3: 13 (3: 10 (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3: 1) (3:

						-	15.0	0	0211
	14.6	115.1	114.5	113.9	111.5	114.2	116.5	0	
	82.8	83.0	83.3	83.0	93.1	80.3	86.5	m	0210
-	83.8	84.2	84.3	85.0	92.8	86.4	87.8	8	
_	114.2	114.5	113.8	113.2	110.7	113.2	115.8	n	
A	79.8	80.4	80.4	80.3	87.9	81.5	83.4	m	0209
	8.2	6.2	0.1	8.3	6.2	6.3	6.2	Ф	Q178
	1.7	1.7	1.0	1.0	1.3	1.5	1.0	8	
•	2.2	2.2	2.2	2.1	1.8	2.0	2.1	m	0174
-	1.7	1.7	1.7	1.7	1.4	1.0	1.7	В	Q173
	2.3	2.2	2.3	2.2	1.9	2.1	2.2	œ	0172
	2.4	2.4	2.4	2.4	2.1	2.3	2.3	8	9170
:	2.2	2.1	2.2	2.1	1.0	2.0	2.1	ဂ	0168
	1.0	1.0	1.0	1.0	0.0	0.0	0.0	₽	0186
	-0.0	J.7	J0.5	0.5	2.7	0.0	0.2	m	0183
	2.2	2.2	2.2	2.1	1.5	2.1	2.2	œ	
	1.7	1.7	1.7	1.0	1.3	1.0	1.0	m	0159
	2.2	2.2	2.2	2.1	1.8	2.0	2.1	8	
	1.7	1.7	1.0		1.3	1.5	1.0	m	0158
	82.1	82.5	82.7	84.4	91.2	84.8	86.0	œ	
-	79.4	80.8	79.9	79.9	87.5	81.1	82.4	m	0157
	83.9	84.0	83.9	85.7	95.7	88.5	88.3	æ	0155
	89.2	90.4	88.7	90.1	99.8	92.9	92.5	B	2154
	11.0	10.9	10.9	10.9	9.7	10.5	10.8	ი	
	82.7	82.6	82.9	82.6	92.0	86.0	86.1	m	0152
	88.9	90.5	92.4	89.5	100.2	92.7	92.1	В	
	84.7	84.9	85.3	88.4	98.5	89.8	89.2	ဂ	
	86.4	88.5	87.0	87.9	98.0	91.4	90.7	m	0151
	82.5	82.5	82.7	83.4	91.2	84.9	80.1	o	
	1.7	1.7	1.7	1.7	1.4	1.0	 O	ш	0149
	90. <b>6</b>	94.2	92.1	92.4	86.3	93.3	94.0	₽	
	82.2	82.5	82.6	83.4	91.2	84.9	86.1	O	0148
	114.2	114.2	118.2	118.4	110.5	119.5	119.8	В.	
	124.4	124.0	123.8	123.4	120.3	123.5	126.0	n	
	115.4	115.5	115.0	114.5	111.0	115.6	117.9	т	0147
	114.1	114.3	113.7	113.2	110.4	114.4	116.7	0	2
	2.8	2.7	2.8	2.7	2.0	2.6	2.7	В	
		1.8	1.7	1.7	1.7	1.7	1.8	0	
	2.4	2.4	2.4	2.3	2.4	2.3	2.3	m c	0132
	3 8	3 8	3 0	3	2	7.7	3		1
	*		.5	•	:	٤.	١	m	0130
٠,	1.7	1.7	1.7	1.7	1.7	0.0	0.0	<u> </u>	0122
	1.7	1.7	1.7	1.7	1.7	0.0	0.0	m	0121
	1.7	1.7	1.7	1.7	1.7	0.0	0.1	<b>B</b>	0110
	1.7	1.7	1.7	1.7	1.7	0.0	0.0	m	0118
	0.0	0.1	0.1	2.4	0.1	2.2	2.8	<u>_</u>	
	0.0	0.0	0.0	10.6	0.0	9.3	11.2	m	0115
	1.0	0.0	0.0	0.0	0.0	1.0	1.0	<b>B</b>	
	0.5	- 1	0.5	0.4	0.1	0.5	0.5	m	212
	NENT	ANALOG C	8 (Y/C)	A.43	J.58	SECAM	PAL		
								1	

	PAL	SECAM	NTSC	NTSC	s (Y/C)	ANALOG	COMPO-
-	0.0	6.8	0.0	0.0	0.0	0.0	0.0
	0.2	0.1	0.1	0.1	0.1	0.1	0.2
-	 Ge	1.7	1.7	1.7	1.7	1.8	1.8
_	10.7	10.7	10.0	10.6	10.0	10.6	10.0
_	1.2	10.7	0.0	0.0	0.0	0.0	0.0
_	9.7	0.4	9.7	9.0	9.6	1.1	9.6
_	11.3	11.3	0.0	10.8	0.0	0.0	0.0
_	11.3	11.4	0.0	11.3	0.0	0.0	0.0
_	11.7	0.0	0.0	11.7	0.0	0.0	0.0
_	11.0	11.1	0.0	11.0	0.0	0.0	0.0
_	2.1	2.2	2.5	2.5	2.5	2.5	2.5
-	11.3	11.3	0.0	11.3	0.0	0.0	0.0
_	11.3	11.3	0.0	0.0	0.0	0.0	0.0
**	8.0	0.8	2.5	2.5	2.5	2.5	2.5
	1.7	1.7	2.5	2.6	2.5	2.5	2.5
_	2.7	1.1	2.0	2.0	2 0	=	=
	4.2	4.3	4.2	4.3	4.3	4.0	4.8
	3.0	2.9	2.8	3.0	2.8	2.0	2.9
0	2.2	2.5	2.9	2.2	1.0	2.8	2.8
•	11.4	11.3	0.0	0.0	0.0	0.0	0.0
0	3.7	3.7	3.8	3.8	3.8	3.9	3.0
$  \vee  $	1.2	1.1	0.0	0.7	0.7	0.0	0.0
0	3.5	3.5	3.4	2.8	3.4	3.4	3.4
	0.0	0.0	1.0	Ξ	Ξ	1.5	Ξ
$  \vee  $	5.5	5.0	5.6	5.6	5.0	5.0	5.0
$  \vee  $	5.5	5.0	5.0	5.0	5.0	5.0	5.0
0	5.3	5.3	5.4	5.2	5.2	5.1	5.1
10	5.6	5.7	5.0	5.6	5.7	5.7	5.7
-	5.0	5.7	5.0	5.0	5.7	5.7	5.0
	. 53	5.3	5.4	5.2	5.2	5.1	5.1
	5.3	5.3	5.4	5.2	5.2	5.1	5.1
7	0.1	0.1	0.2	0.2	0.2	0.2	0.2
9	1.4	1.1	1.3	:	1.5	1.5	1.5
10	 G	1.5	1.3	1.0	 O	1.7	1.6
10	1.0	1.5	1.3	1.6	1.0	:-	1.7
100	1.7	1.00		1.7	1.7	1.0	1.7
1						,	,

Schematic diagram

SYNC-CHIP-CLAMPI

F:00182 CLAND-1254

RI 330 \$ 81 333 35HP 357 15HP 15HP

SAGIFER-SW2

\$2.0000.7 \$0.0000.7 \$0.0000.7

OK :CHIBW RZZ4

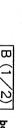
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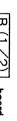
QA

FA G S

CA X P HA

59 —





RGB, COMP

X-H/B-L VOL

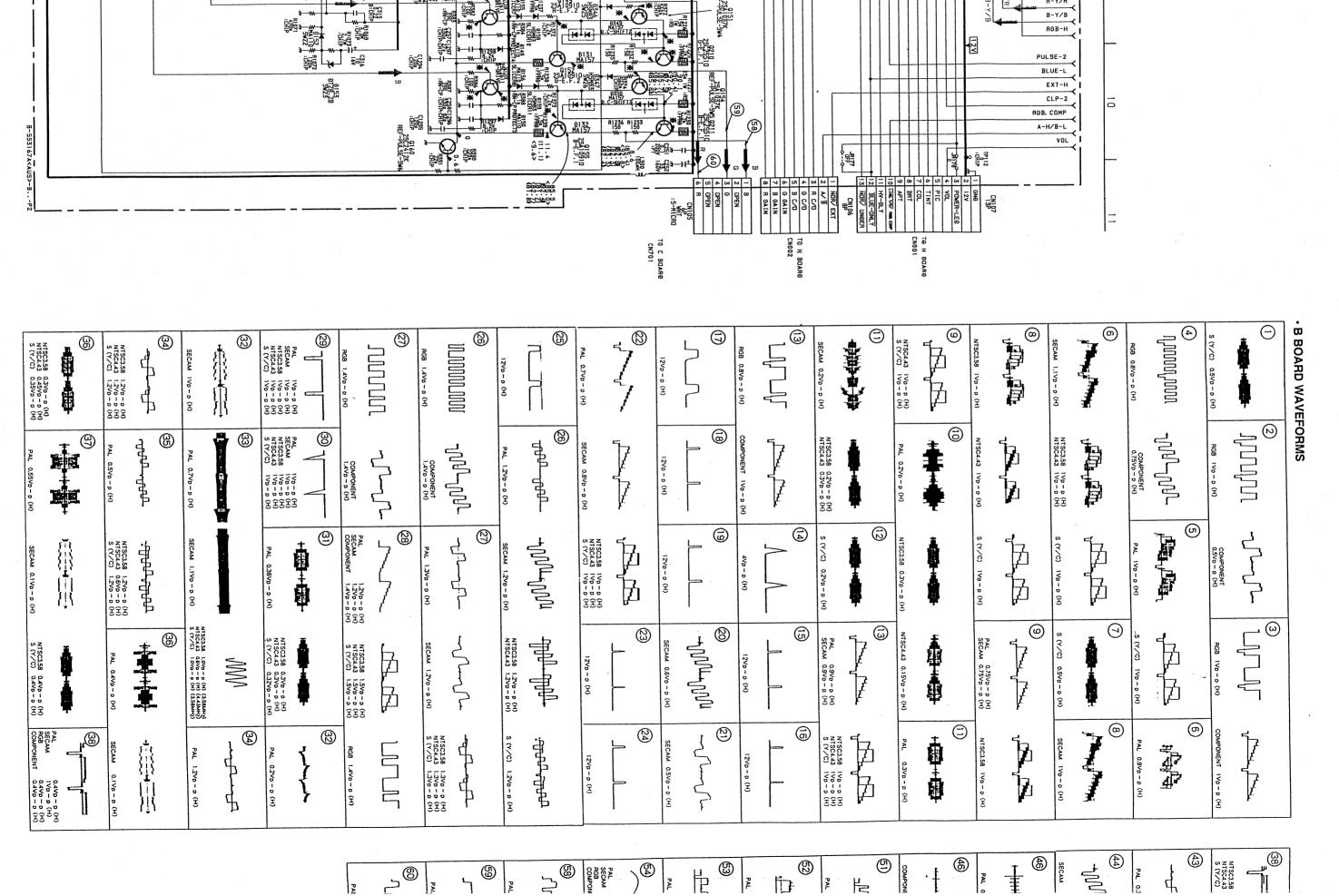
CNIOS SP WHIT IS-HICRO TALLY NC NC NC ONB

Y/G

63

64

BLANKING4



0130 0C-SHIFT/PROTECTI 0131 0C-SHIFT/PROTECTZ 0132 0C-SHIFT/PROTECT3

P-LEÐ

R-Y/R

B-Y/B

RGB-H

PULSE-2

UNBER-H MUTE Y/G

25Å 1037K REF-PULSE-SW4

(3)

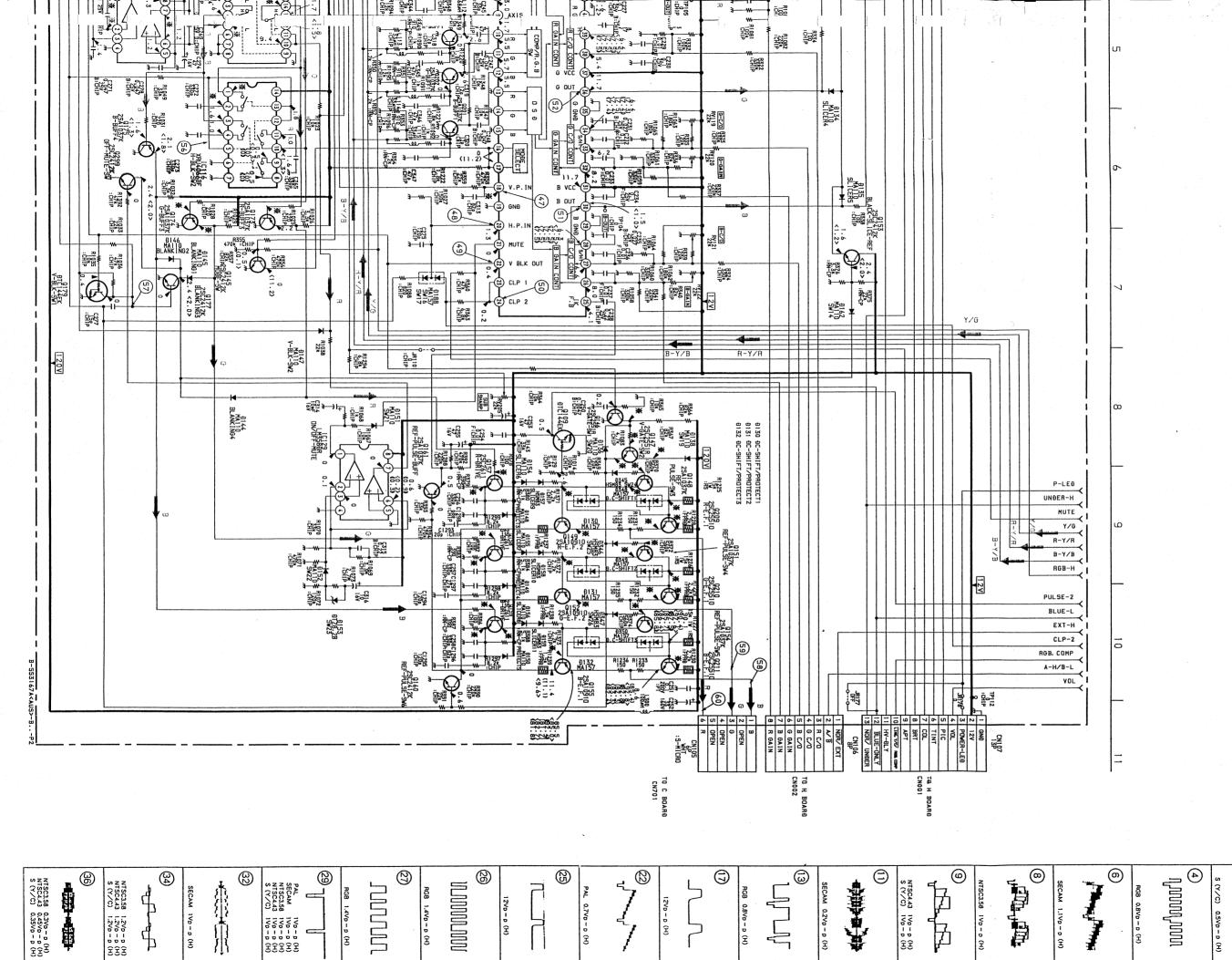
(3)

4

(3)

...

PAL SECAM NTSC3.58 NTSC4.43 S (Y/C)



(8)

NTSC3.58 0.2\ NTSC4.43 0.3\

7

**a** 

b

NTSC3.58 1VI

T

1 @

B BOARD WAVEFORMS

 $\Theta$ 

July July

**—** 66 —

1.4Vp - p (H)		1.3Vp - p (H) 1.3Vp - p (H)	\$	1.2Vp - p (H)	range.	Vp - p (H)		0.5Vp - p (H)		/p - p (H)		1Vp - p (H)		0.3Vp - p (H)		8 1Vp - p (H)		1Vp - p (H)	1	.9Vp - p (H)	4	VT 1Vp - p (H)	7	
_ <b></b>					A 4/2	<b></b>						-						1		T				
PAL 66Vp - p (H)	ىلىكىلىد	PAL 76Vp - p (H)	کس اسسال (8)	PAL 72Vp - p (H)	(B)	PAL 0.6Vp - p (V) SECAM 0.6Vp - p (V) RGB 0.6Vp - p (V) COMPONENT 0.6Vp - p (V)		PAL 2.5Vp - p (H)	<del></del>	PAL 2.6Vp - p (H)	(D)	PAL 2.6Vp - p (H)	Juvu-luvu (3)	COMPONENT 0.3Vp - p (H)	£	PAL 0.36Vp - p (H)		SECAM 0.45Vp - p (H)	noon-noon-	PAL 0.35Vp - p (H)		NTSC3.58 0.4Vp - p (H) NTSC4.43 0.4Vp - p (H) S (Y/C) 0.4Vp - p (H)	(8)	
SECAM 64Vp - p (H)	كمرابحرا	SECAM 72Vp - p (H) NTSC3.58 72Vp - p (H)		SECAM 80Vp - p (H)	กษายามาก	NTSC3.58 0.9Vb - p (V) NTSC4.43 1Vp - p (H) S (Y/C) 0.7Vb - p (V)	>	SECAM 2.6Vp - p (H)		SECAM 2.6Vp - p (H)	7	SECAM 3Vp - p (H)	ուրուույու	4.6Vp - p (V)		SECAM 0.35Vp - p (H)		NTSC3.58 0.45Vp - p (H) NTSC4.43 0.4Vp - p (H)	ᠳᡗᡀᡀᢦᡙᡚ	SECAM 0.35Vp - p (H)	می استال	12Vp - p (H)	<b>3</b>	
S (Y/C) 80Vp-p (H)	NTSC3.58 80V0 P (H)	NTSC4.43 90Vp - p (H) S (Y/C) 86Vp - p (H)		NTSC3.58 86Vp - p (H) NTSC4.43 90Vp - p (H) S (Y/C) 86Vp - p (H)	कित्तम् कित्तम्	11Vp - p (H)	(B)	NTSC3.58 3.1Vp - p (H) NTSC4.43 3.1Vp - p (H) S (Y/C) 3.1Vp - p (H)	4004	NTSC3.58 3.4Vp-p (H) NTSC4.43 3.4Vp-p (H) S (Y/C) 3.4Vp-p (H)		NTSC3.58 3.2Vp - p (H) NTSC4.43 3.2Vp - p (H) S (Y/C) 3.2Vp - p (H)	रिक्यानी मिर्ग्य	10.4Vp - p (V)	(8)	NTSC3.58 0.8Vp - p (H)		S (Y/C) 0.33Vp - p (H) SECAM COMPONENT 0.36Vp - p (H) COMPONENT	Պորեյու	NTS64.43 0.32Vp - p (H) S (Y/C) 0.35Vp - p (H)	A CONTRACTOR (A)	PAL 11Vp-p (H)	40	
RGB 70Vp - p (H)	התוהיו	RGB 70Vp - p (H)		RGB 70Vp - p (H)	يما لسس لس	10Vp - p (H)	(a)	RGB 2.6Vp - p (H)	<b>D</b>	RGB 2.7Vp - p (H)		COMPONENT 3Vp - p (H)	ിഗ്സിഗ്സ	3.5Vp - p (V)	460	NTSC4.43 0.6Vp - p (H)	+ + + + + + + + + + + + + + + + + + + +	SECAM 0.5Vp - p (H) COMPONENT 0.6Vp - p (H)		COMPONENT 0.28Vp - p (H)		PAL 1.8VD - p (H)	41)	
COMPONENT 80Vb - p (H)	7	COMPONENT BOVD - p (H)		COMPONENT 80Vp - p (H)	-إلىسراسى	2.4Vp - p (H)		COMPONENT 2.8Vp - p (H)	1	COMPONENT 3Vp - p (H)	7	RGB 2.7vp - p (H)	ւխուսու	3.5Vp - p (H)		S (Y/C) 0.8Vp - p (H)		NTSC4.43 0.8Vp - p (H) S (Y/C) 0.6Vp - p (H)	NTSC3.58 O.BVO - P (H)	PAL 0.45Vp - p (H)	<del>دالای دالایی.</del>	MISCAS (100 - 0 (1)) MISCAS (1	1 1	

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(Component Side)

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	1	BV116	C -	_	8	2109	$\sim$
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	1	BV105	B - 9	Ω210	C - 3	C123	-
	ī	EV104	> - 9	0209	C - 3	0122	=
	1	RV103	B - 2	0208	Β - ω	0121	=
	D-2	RV102	> □ □	0206	Β - ω	C120	=
	0-1	RV101	> 0	Ω205	D - 3	C119	=
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	D-2	D393	A - 1	0197	0-9	C115	$\overline{}$
	ı	D390	A 1	Q196	D - 8	0114	$\overline{}$
	B - 9	D350	B -	0193	D - 9	3113	ō
	8-9	D349	A - 2	0191	D - 8	2112	$\overline{}$
	> - 9	D348	D-2	0189	C-7	2111	ถ
	B - 9	D347	Ï.	0176	D-7	_	ದ
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	A - 9	D345	B 1 8	Ω166	C-1	108	ਨ
	D I S	D344	A - 8	0164	C-1	C107	$\overline{}$
	m I 1	D343	8 - 8	0159	0-1	C106	$\overline{}$
	C-7	D342	B - 8	Q158	D - 4	105	ō
	B - 1	0191	1	0157	C - 6	104	Ö
	B I O	D188	B - 9	0155	E C	C103	$\circ$
	A - 7	D162	1	0152	D - 6		O
	A - 8	D157	1		D - 5	101	വ
	B - 8	D156	ī	0149		7	
	A - 8	D154	8-0	0147		5	- 1

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**BOARD** (Conductor Side)

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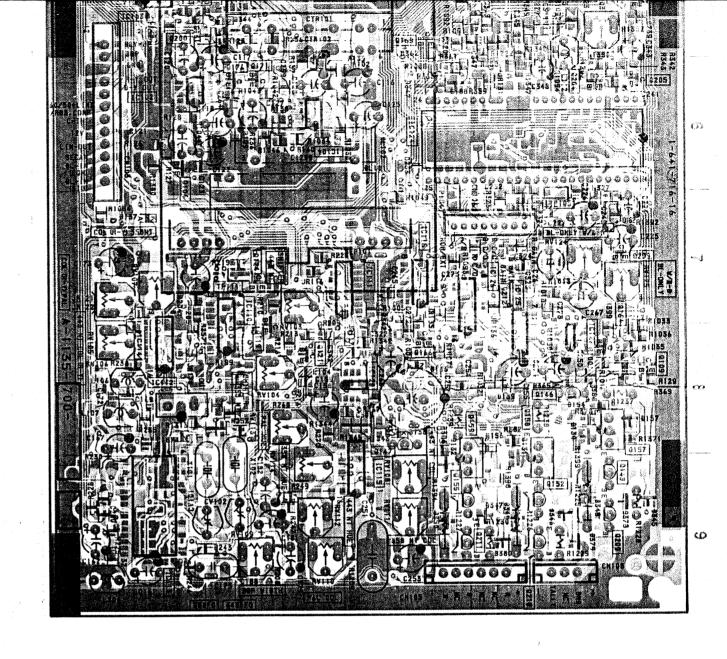
DIOD

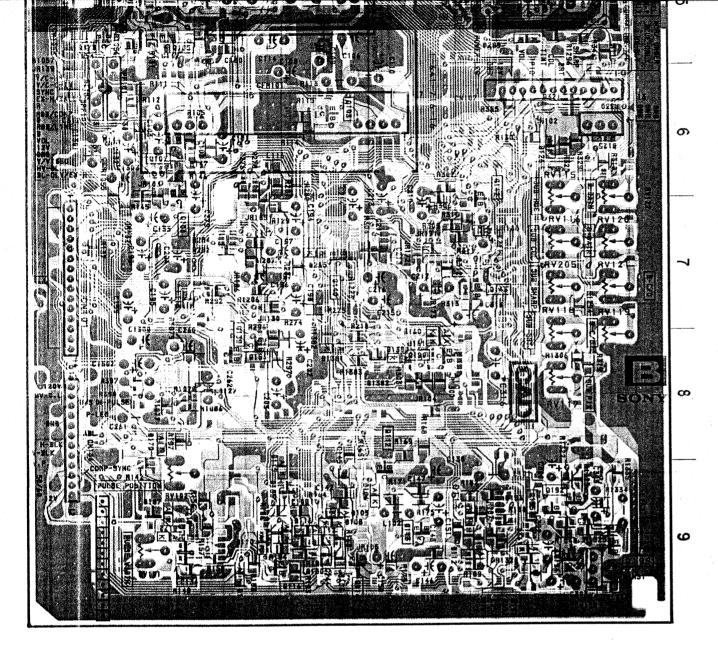


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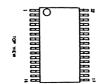


# 6-5. SEMICONDUCTORS

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CXA1214P

CXA1478S







XRU4011BF XRU4070BF

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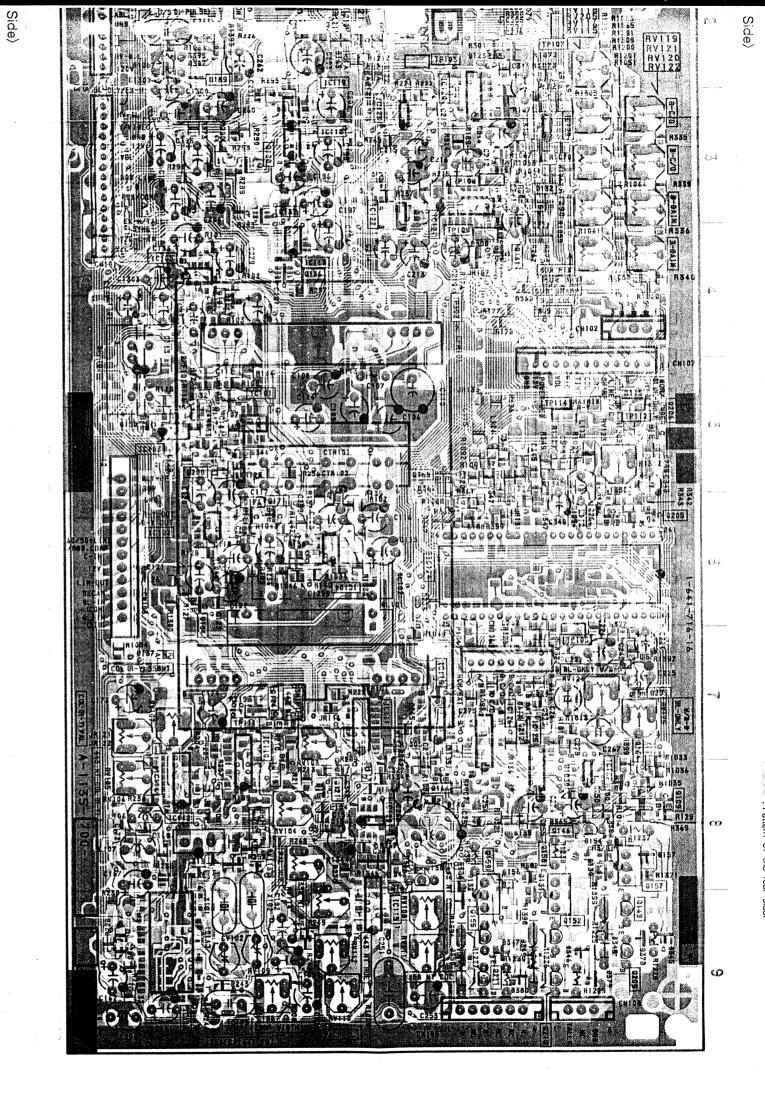
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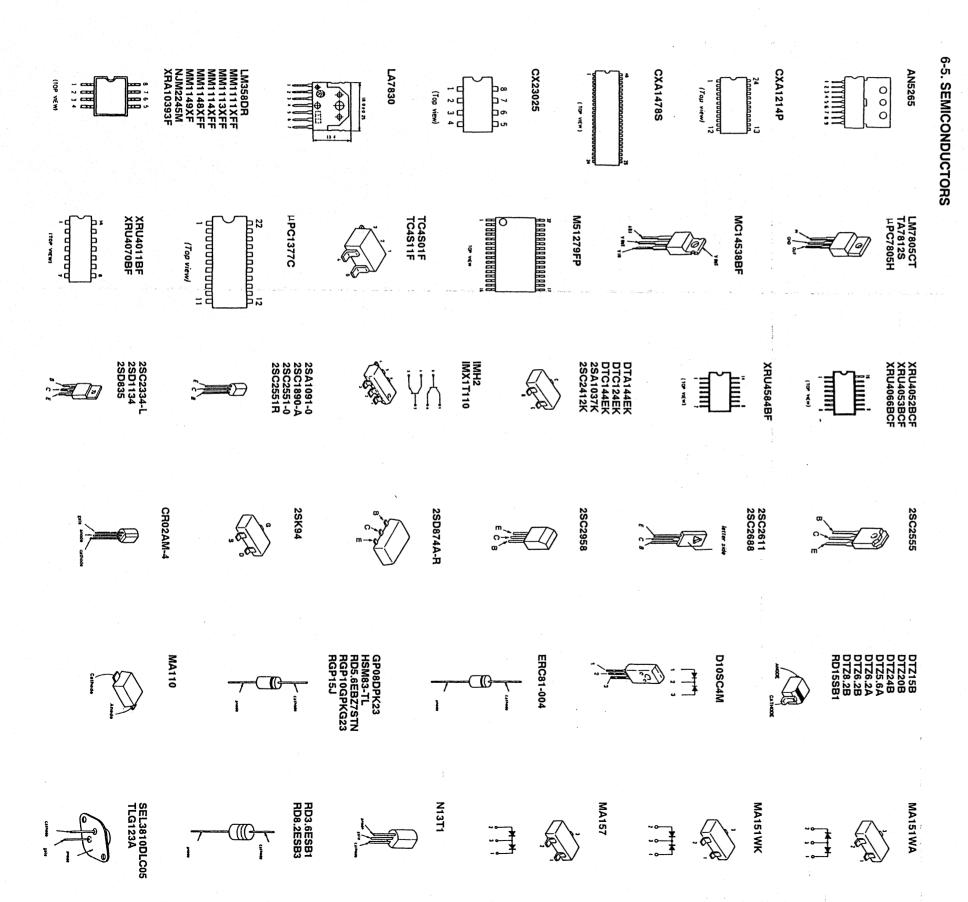
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# **SECTION 7 EXPLODED VIEWS**

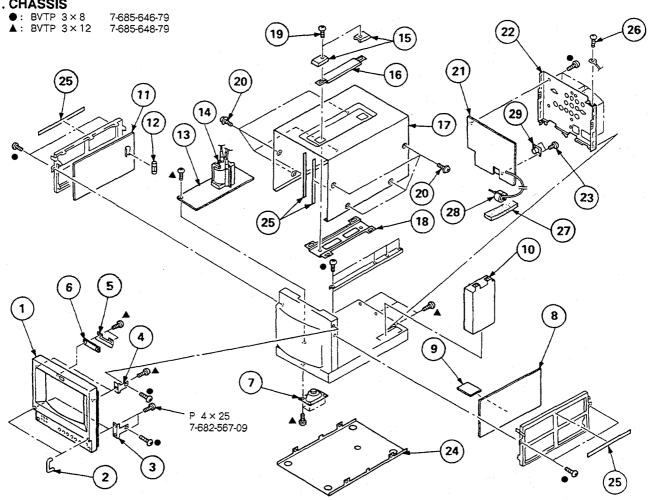
### NOTE:

- Items with on part number and on des-
- cription are not stocked because they are seldom required for routine service.

  The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

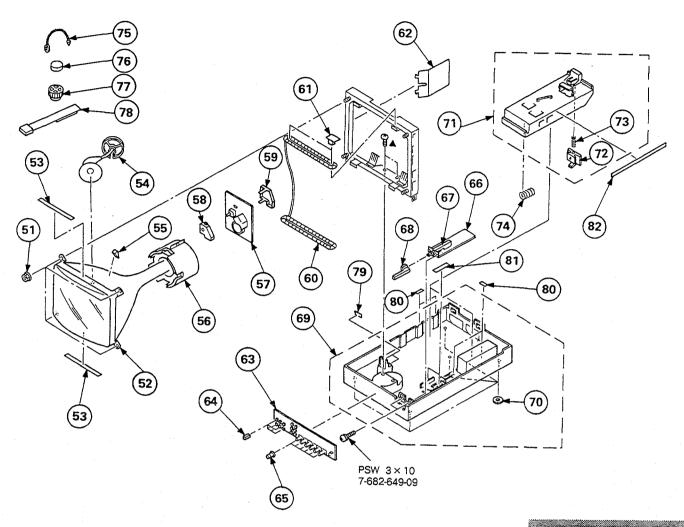
# 7-1. CHASSIS



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
1 1 2 3 4	X-4030-164-6 4-037-569-01	BEZEL ASSY (PVM-9044QM) BEZEL ASSY (PVM-9041QM) HANDLE, PROTECTOR BRACKET (L), BEZEL BRACKET (U), BEZEL			3-419-372-31 *4-034-867-01 *X-4030-273-1		HANDLE	
6 7 8	*A-1390-276-A 1-544-252-11 *A-1135-716-A	PLATE, LIGHT INTERCEPTION X BOARD, CMOPLET SPEAKER B BOARD, COMPLETE S BOARD, COMPLETE		22 23	*A-1275-121-A *4-034-864-71 4-035-802-01	SCREW (CLAW) (4X6), QA BOARD, COMPLETE CHASSIS, A SCREW (M2.6X.6) CABINET, BOTTOM	CASE	
11 12 13	*A-1346-251-A \$ 1-576-232-11 *A-1195-048-A	SWITCHING REGULATOR (SOPS-1021(A)) D BOARD, COMPLETE FUSE (H.B.C.) (5.0A/250V) P BOARD, COMPLETE TRANSFORMER ASSY, FLYBACK		26 27	4-389-025-01 *4-036-058-01	SCREW (M4X8) (EXT TOO SPONGE CORE ASSY, FERRITE		

# 7-2. PICTURE TUBE

▲: BVTP 3×12 7-685-648-79



The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

									******************
R	EF.NO	D. PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	51 52 52 53 54	4-304-511-00 \$ 8-737-154-05 \$ 8-737-651-05 4-035-332-01 *4-034-856-01	NUT (M5), FLANGE PICTURE TUBE (09NDX) PICTURE TUBE (09FX) CLOTH, PROTECTION HOLDER, HV CABLE	(PVM-9041QM (PVM-9044QM		70 71 72 73 74	4-034-840-01 *X-4030-163-1 4-034-861-01 4-876-347-01 3-669-594-00	RUBBER, FOOT GUIDE ASSY, BATTERY KNOB, BATTERY SPRING, COMPRESSION SPRING, COMPRESSION	72,73
	55 56 57 58 59	4-309-369-00 £1-451-319-22 *A-1331-183-A *4-376-133-11 *4-376-132-11	SPACER, DEFLECTION YOUR CYPF, CA BOARD, COMPLETE COVER (MAIN), CV VOL COVER (REAR LID), CV	(C)		75 76 77 78 79	4-308-870-00 1-452-126-11 1-452-094-00 X-4308-815-0 *4-036-047-02	CLIP, LEAD WIRE MAGNET MAGNET, ROTATABLE DISK: 15MM  PERMALLOY ASSY, CONVERGENCE RUBBER, VIBRATION PROOF	
	60 61 62 63 64	∆ 1-426-043-12 4-380-534-01 *4-034-850-01 *A-1371-782-A 4-034-849-01	COIL, DEGAUSSING CAP, DGC INSULATOR HA BOARD, COMPLETE SWITCH (SMALL), PUSH			80 81 82	3-839-640-00 3-831-441-11 *4-035-691-01	CUSHION CUSHION (F) CLOTH, VIBRATION PROOF	
	65 66 67 68 69	X-4030-162-2 *A-1241-070-A 1-692-050-11 4-034-841-11 *X-4030-166-1	KNOB ASSY, CONTROL FA BOARD, COMPLETE SWITCH, PUSH (AC POWI BUTTOM, POWER SWICH CHASSIS ASSY, BOTTOM	ER) (1KEY)	70				

# SECTION 8 ELECTRICAL PARTS LIST



### NOTE:

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## RESISTORS

- All resistors are in ohms.
- F: nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS COILS
• MF: μF, PF: μμF
• MMH: mH, UH: μH

- There are some cases the reference number on one board overlaps on the other board.
   Therefore, when ordering parts by the reference number, please include the board

							name.	,,		
REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	name. PART NO.	DESCRIPTION		REMARK
:	*A-1135-716-A <fil< td=""><td></td><td>MPLETE *****</td><td></td><td></td><td>C143 C144 C145 C146</td><td>1-163-121-00 1-163-101-00 1-163-131-00 1-126-157-11</td><td>CERAMIC CHIP 150PF CERAMIC CHIP 22PF CERAMIC CHIP 390PF ELECT 10MF</td><td>5% 5% 5% 20%</td><td>50V 50V 50V 16V</td></fil<>		MPLETE *****			C143 C144 C145 C146	1-163-121-00 1-163-101-00 1-163-131-00 1-126-157-11	CERAMIC CHIP 150PF CERAMIC CHIP 22PF CERAMIC CHIP 390PF ELECT 10MF	5% 5% 5% 20%	50V 50V 50V 16V
BPF101 BPF102	1-236-363-11 1-236-364-11	FILTER, BAND FILTER, BAND	PASS PASS			C147 C148 C149 C150 C151	1-126-160-11 1-163-022-00 1-124-589-11	CERAMIC CHIP 0.01MF BLECT 1MF CERAMIC CHIP 0.012MF BLECT 47MF CERAMIC CHIP 390PF	10% 20% 10% 20% 5%	50V 50V 50V 16V 50V
C101 C102 C103 C104 C105	1-124-589-11 1-163-031-11 1-126-157-11 1-163-031-11 1-163-031-11	ELECT CERAMIC CHIP ELECT CERAMIC CHIP		20% 20%	16V 50V 16V 50V 50V	C152 C153 C154 C155 C156	1-163-031-11	CERAMIC CHIP 22PF CERAMIC CHIP 220PF CERAMIC CHIP 0.01MF CERAMIC CHIP 470PF CERAMIC CHIP 0.22MF	5% 5% 5% 10%	50V 50V 50V 50V 25V
C106 C107 C108 C109 C110	1-124-477-11	ELECT CERAMIC CHIP ELECT ELECT ELECT	47MF 0.01MF 47MF 47MF 220MF	20% 20% 20%	16V 50V 16V 16V 16V	C157 C158 C159 C160 C161	1-124-477-11 1-163-229-11 1-163-229-11 1-124-902-00	CERAMIC CHIP 12PF CERAMIC CHIP 12PF ELECT 0.47MF		50V 16V 50V 50V 50V
C111 C112 C113 C114 C115	1-163-031-11 1-163-031-11 1-163-031-11 1-124-477-11 1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.01MF 0.01MF 47MF	20%	50V 50V 50V 16V 50V	C162 C163 C164 C165 C166	1-163-809-11 1-163-809-11 1-163-009-11 1-163-031-11	ELECT 1MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01MF	20% 10% 10% 10%	50V 25V 25V 50V 50V
C116 C117 C118 C119 C120	1-124-589-11 1-126-154-11 1-126-154-11 1-163-031-11 1-126-154-11	ELECT ELECT ELECT CERAMIC CHIP	47MF 47MF 47MF	20% 20% 20% 20%	16V 6.3V 6.3V 50V 6.3V	C167 C168 C169 C170 C171	1 100 001 11	ELECT 47MF CERAMIC CHIP 0.01MF CERAMIC CHIP 47PF CERAMIC CHIP 330PF CERAMIC CHIP 47PF	5% 5% 5%	16V 50V 50V 50V 50V
C121 C122 C123 C124 C125	1-126-154-11 1-124-477-11 1-163-031-11 1-163-031-11 1-126-154-11	CERAMIC CHIP	47MF 0.01MF		6.3V 16V 50V 50V 6.3V	C172 C173 C174 C175 C176	1-124-589-11 1-124-477-11 1-108-792-11	CERAMIC CHIP 330PF ELECT 47MF ELECT 47MF MYLAR 0.001MF CERAMIC CHIP 0.01MF	5% 20% 20% 5%	50V 16V 16V 50V 50V
C126 C127 C128 C129 C130		CERAMIC CHIP ELECT ELECT CERAMIC CHIP CERAMIC CHIP			50V 6.3V 6.3V 50V 50V	C177 C178 C179 C180 C181	1-163-031-11 1-126-160-11	CERAMIC CHIP O.O1MF	20% 20%	50V 50V 50V 50V 6.3V
C131 C132 C133 C134 C135		CERAMIC CHIP	0.01MF 47MF 47MF 0.001MF	20% 20% 5% 5%	50V 16V	C184	1-163-031-11 1-163-031-11	ELECT 4.7MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 18PF	20% 10% 5%	16V 50V 50V 50V 50V
C137 C138 C139 C140 C141	1-163-249-11 1-124-589-11 1-163-031-11 1-163-205-00 1-163-141-00	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	82PF 47MF 0.01MF 0.001MF	5% 20% 5%	50V 16V 50V 50V 50V	C187 C188 C189 C190 C191	1-163-031-11 1-163-031-11 1-163-035-00 1-163-121-00 1-163-031-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.047MF CERAMIC CHIP 150PF CERAMIC CHIP 0.01MF	5%	50V 50V 50V 50V 50V
C142		CERAMIC CHIP		<i>J1</i> 6	50V	C192 C193	1-163-031-11 1-124-589-11	CERAMIC CHIP 0.01MF ELECT 47MF	20%	50V 16V



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	ļ		REMARK
C194 1-124-589-1 C195 1-124-589-1 C196 1-124-589-1 C197 1-124-589-1 C198 1-124-589-1	1 ELECT 47MF 1 ELECT 47MF 1 ELECT 47MF	20% 20% 20% 20% 20%	16V 16V 16V 16V 16V	C261 C262 C264 C265	1-137-193-11 1-124-465-00 1-163-123-00 1-163-129-00 1-126-320-11 1-126-320-11	PI PCT	0.4746	20*	50V 50V 50V 50V
C199 1-124-589-1 C202 1-124-589-1 C203 1-124-589-1 C204 1-124-589-1 C205 1-163-101-0	I ELECT 47MF I ELECT 47MF I ELECT 47MF CERAMIC CHIP 22PF	20% 20% 20% 20% 5%	16V 16V 16V 16V 50V	C266 C267 C268 C269 C270 C271	1-126-320-11 1-126-320-11 1-124-477-11 1-164-004-11 1-163-809-11		47MF 0.1MF 0.1MF		16V 16V 16V 25V 25V 25V
C208 1-163-101-0 C209 1-164-004-1 C210 1-124-589-1	CERAMIC CHIP 0.15MF CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 47MF	10% 10% 5% 10% 20%	25V 25V 50V 25V 16V	C272 C273 C274 C275 C277	1-163-129-00 1-163-129-00 1-124-477-11 1-163-119-00	CERAMIC CHIE CERAMIC CHIE ELECT	330PF 330PF 47MF	5%	50V 50V 16V 50V 50V
C211 1-124-589-1 C212 1-124-589-1 C213 1-124-589-1 C214 1-126-157-1 C215 1-126-157-1	1 ELECT 47MF 1 ELECT 47MF 1 ELECT 10MF 1 ELECT 10MF	20% 20% 20% 20% 20%	16V 16V 16V 16V 16V	C278 C279 C280 C281 C282	1-163-097-00 1-163-809-11 1-126-157-11 1-163-117-00 1-163-031-11 1-163-031-11 1-163-031-11			10%	25V 16V 50V 50V 50V
C216 1-126-157-1 C217 1-163-031-1 C218 1-164-298-1 C219 1-163-009-1 C220 1-163-031-1	1 ELECT 10MF 1 CERAMIC CHIP 0.01MF 1 CERAMIC CHIP 0.15ME	20%	16V 50V 25V 50V 50V	C283 C299 C300 C301 C302	1-163-031-11 1-163-031-11 1-126-157-11 1-163-809-11 1-124-589-11	CERAMIC CHIP ELECT CERAMIC CHIP ELECT	0.01MF 10MF 0.047MF	20% 10% 20%	50V 50V 16V 25V 16V
C221 1-124-903-1 C222 1-163-093-0 C223 1-163-031-1 C225 1-124-477-1 C226 1-163-031-1	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 10PF CERAMIC CHIP 0.01MF CELECT 47MF CELECT 47MF CERAMIC CHIP 0.01MF	20% 5% 20%	50V 50V 50V 16V 50V	C303 C304 C305 C306 C307	1-126-157-11 1-163-125-00 1-124-257-00 1-163-115-00 1-163-145-00	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP	82PF 0.0015MF	20% 5% 20% 5% 5%	16V 50V 50V 50V
C227 1-163-038-0 C228 1-163-986-0 C229 1-163-031-1 C230 1-163-038-0 C231 1-163-986-0	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.027MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10%	25V 25V 50V 25V 25V	C308 C309 C310 C312 C313	1-164-004-11 1-164-004-11 1-164-004-11 1-163-031-11 1-163-115-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT		10% 10% 10%	25V 25V 25V 50V 50V
C232 1-163-031-1 C233 1-163-031-1 C234 1-163-038-0 C235 1-163-986-0 C236 1-163-031-1	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.027MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.02MF CERAMIC CHIP 0.02MF	10%	50V 50V 25V 25V 50V	C314 C315 C316 C317 C318	1-126-157-11 1-164-299-11 1-126-157-11 1-163-031-11 1-163-095-00 1-163-095-00	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP	10MF 0.22MF 10MF 0.01MF 12PF	20%	16V 25V 16V 50V 50V
C241 1-163-809-1	CERAMIC CHIP 0.047MF	10%	50 V 25 V 25 V 25 V 25 V	C319 C320 C321 C322 C324	1-163-095-00 1-163-121-00 1-163-121-00 1-163-119-00		12PF 150PF 150PF	5%	50V 50V 50V 50V
C242 1-163-113-0 C243 1-163-031-1 C244 1-163-103-0 C245 1-163-105-0 C246 1-163-809-1	CERAMIC CHIP 0.01MF CERAMIC CHIP 27PF CERAMIC CHIP 33PF CERAMIC CHIP 0.047MF	5% 5% 5% 10%	50V 50V 50V 50V 25V	C340 C344 C345 C346 C347	1-163-205-00 1-163-092-00 1-163-109-00 1-163-109-00 1-163-109-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	9PF 47PF 47PF	5% 0.25PF 5% 5%	50V 50V 50V 50V 50V
C249 1-126-101-1 C250 1-163-017-0 C251 1-110-364-1	1 CERAMIC CHIP 0.047MF 1 ELECT 100MF 0 CERAMIC CHIP 0.0047MF	10% 10% 20% 10% 10%	25V 25V 16V 50V 200V	C1293 C1294 C1295 C1296 C1297	1-163-119-00 1-163-119-00 1-163-119-00 1-163-115-00 1-163-103-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	120PF 120PF 120PF 82PF	5% 55% 55% 55% 55%	50V 50V 50V 50V 50V
C252 1-123-935-0 C253 1-124-477-1 C254 1-163-031-1 C255 1-124-477-1 C256 1-163-129-0	1 ELECT 47MF 1 CERAMIC CHIP 0.01MF 1 ELECT 47MF	20% 20% 20% 5%	160V 16V 50V 16V 50V	C1298 C1299 C1300 C1301 C1302	1-163-113-00 1-163-093-00 1-126-160-11 1-126-160-11 1-126-160-11	CERAMIC CHIP CERAMIC CHIP ELECT ELECT ELECT	68PF	5% 5% 20% 20% 20%	50V 50V 50V 50V 50V
C257 1-163-129-0 C258 1-163-129-0 C259 1-163-031-1 C260 1-124-465-0	O CERAMIC CHIP 330PF 1 CERAMIC CHIP 0.01MF	5% 5% 20%	50V 50V 50V 50V	C1303	1-126-160-11	ELECT TER>	1MF	20%	50V



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
CFM101 1-464-880-11	FILTER BLOCK, COM (CFB-2)			8-719-404-46 8-719-404-46		
<com< td=""><td>INECTOR&gt;</td><td></td><td>D153 D154</td><td>8-719-404-46 8-719-404-46</td><td>DIODE DTZ8.2B DIODE MA110 DIODE MA110</td><td></td></com<>	INECTOR>		D153 D154	8-719-404-46 8-719-404-46	DIODE DTZ8.2B DIODE MA110 DIODE MA110	
CN101 1-506-480-11 CN102 *1-564-506-11 CN103 *1-565-503-11 CN104 *1-564-011-11	PIN, CONNECTOR 15P PLUG, CONNECTOR 3P CONNECTOR, BOARD TO BOARD 12P PIN, CONNECTOR 12P PLUG, CONNECTOR 6P PIN, CONNECTOR 8P PIN, CONNECTOR 13P PLUG, CONNECTOR 3P		D156 D157	8-719-404-46 8-719-901-83	DIODE MA110 DIODE 1SS83 DIODE 1SS83	
CN106 1-506-473-11	PLUG, CONNECTOR 6P PIN, CONNECTOR 8P		D158 D159 D160	8-719-901-83 8-719-901-83 8-719-404-46 8-719-404-46	DIODE 1SS83	
CN107 1-506-478-11 CN108 *1-564-506-11	PIN, CONNECTOR 13P PLUG, CONNECTOR 3P		D162 D170 D185	8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110	
	P MODULE> Module, trap		D185 D186 D187 D188	8-719-104-34 8-719-801-78 8-719-800-76 8-719-800-76	DIODE 1SS184	
CTR102 1-236-365-11	MODULE, TRAP		D191 D285	8-719-104-34 8-719-404-46	DIODE 152836 DIODE MA110	
CV101 1-141-418-11 CV102 1-141-418-11	MMER> CAP, ADJ		D289 D341 D342	8-719-404-46 8-719-404-46 8-719-104-34		
<di(< td=""><td>MODULE, TRAP MODULE, TRAP MMER&gt; CAP, ADJ CAP, ADJ DIODE MAIIO DIODE MAIIO</td><td></td><td>D343 D344 D345</td><td>8-719-901-83</td><td>DIODE RD6.2M-B1 DIODE 1SS83</td><td></td></di(<>	MODULE, TRAP MODULE, TRAP MMER> CAP, ADJ CAP, ADJ DIODE MAIIO		D343 D344 D345	8-719-901-83	DIODE RD6.2M-B1 DIODE 1SS83	
D103 8-719-404-46 D104 8-719-404-46 D105 8-719-404-46	DIODE MA110 DIODE MA110		D346 D347 D348 D349	8-719-901-83 8-719-901-83	DIODE 1SS83 DIODE 1SS83	
D105 8-719-404-46 D106 8-719-404-46 D107 8-719-404-46	DIODE MA110 DIODE MA110		D348 D349 D350 D390	8-719-800-76 8-719-800-76 8-719-800-76 8-719-800-76	DIODE 1SS226 DIODE 1SS226 DIODE 1SS226	
D110 8-719-404-46	DIODE MA110		D393	8-719-404-46	DIODE MA110	
D111 8-719-404-46 D112 8-719-404-46			DI 101		AY LINE> DELAY LINE, Y DELAY LINE, Y	
D113 8-719-404-46 D117 8-719-404-46 D120 8-719-404-46	DIODE MA110 DIODE MA110		DL102			
D121 8-719-404-46 D122 8-719-404-46	DIODE MAIIO DIODE MAIIO	•	10101	<1.0> 8-759-084-76		
D123 8-719-404-46 D125 8-719-404-46 D126 8-719-404-46 D127 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110		IC102 IC103 IC104	8-759-287-89 8-759-287-89	IC MM1113XFF	
D128 8-719-801-78 D129 8-719-404-46 D130 8-719-800-76 D131 8-719-800-76 D132 8-719-800-76	DIODE 1SS226		IC106 IC107 IC108 IC109 IC110	8-759-009-51 8-759-509-57 8-759-509-17 8-759-509-37 8-759-509-17	IC MC14538BF IC XRU4584BF IC XRU4053BCF IC XRU4070BF IC XRU4053BCF	
D133 8-719-404-46	DIODE MA110		IC111	8-759-509-17	IC XRU4053BCF	
D134 8-719-404-46 D135 8-719-404-46 D136 8-719-404-46 D137 8-719-404-46 D138 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110		IC112 IC113 IC114 IC115	8-759-924-12 8-759-631-08 8-759-932-64 8-759-932-64	IC LM7805CT IC M51279FP IC BU4052BCF IC BU4052BCF	
D139 8-719-404-46 D144 8-719-404-46 D145 8-719-404-46 D146 8-719-404-46 D147 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110		IC116 IC117 IC118 IC119 IC120	8-759-509-05 8-759-711-32 8-759-711-32 8-759-711-32 8-759-509-05	IC XRU4066BCF IC NJM2245M IC NJM2245M IC NJM2245M IC XRU4066BCF	
D148 8-719-404-46 D149 8-719-404-46 D150 8-719-404-46	DIODE MAIIO DIODE MAIIO DIODE MAIIO		IC121 IC122 IC123 IC124	8-759-509-17 8-759-998-98 8-759-998-98 8-752-052-62	IC XRU4053BCF IC LM358D IC LM358D IC CXA1478S	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC126 IC127	8-759-509-17 8-759-998-98	IC XRU4066BCF IC XRU4053BCF IC LM358D		Q138 Q139 Q140	8-729-907-26 8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR IMX1 TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6	
	<c01< td=""><td>L&gt;</td><td></td><td>Q143 Q144</td><td>8-729-120-28</td><td>TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6</td><td></td></c01<>	L>		Q143 Q144	8-729-120-28	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6	
L101 L102 L103 L104	1-410-470-11 1-410-090-41 1-412-002-31 1-412-002-31	IC LM358D IC LM358D  L>  INDUCTOR 10UH INDUCTOR 18MMH INDUCTOR CHIP 4.7UH INDUCTOR CHIP 4.7UH INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 68UH INDUCTOR CHIP 33UH INDUCTOR CHIP 33UH INDUCTOR CHIP 27UH INDUCTOR CHIP 2.2UH  INDUCTOR CHIP 27UH INDUCTOR CHIP 100UH INDUCTOR CHIP 2.0UH INDUCTOR 2.0UH		Q146 Q147 Q148	8-729-255-12 8-729-255-12 8-729-216-22	TRANSISTOR 2SC2551-0 TRANSISTOR 2SC2551-0 TRANSISTOR 2SA1162-G	
L105 L106 L107 L112	1-412-002-31 1-410-470-11 1-410-470-11	INDUCTOR CHIP 4.70H  INDUCTOR 10UH INDUCTOR 10UH		Q149 Q150 Q151 Q152	8-729-120-28	TRANSISTOR 2SA1091-0 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-0	
L113 L114	1-410-947-31 1-410-947-31	INDUCTOR CHIP 33UH INDUCTOR CHIP 33UH		Q153 Q154 Q155	8-729-216-22	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SA1091-0	
L115 L116 L117	1-410-947-31 1-412-011-31 1-412-011-31	INDUCTOR CHIP 33UH INDUCTOR CHIP 27UH INDUCTOR CHIP 27UH		Q157 Q158	8-729-326-11	TRANSISTOR 2SC2611 TRANSISTOR 2SC2611	
L118 L250	1-412-011-31 1-410-997-31	INDUCTOR CHIP 27UH INDUCTOR CHIP 2.2UH		Q159 Q160 Q161	8-729-120-28 8-729-216-22	TRANSISTOR 2SC2611 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G	
L251 L252 L300	1-410-999-11 1-410-478-11 1-410-482-31	INDUCTOR CHIP 3.3UH INDUCTOR 47UH INDUCTOR 100UH		Q164 Q165	8-729-216-22	TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G	
Q101	<trai< td=""><td>NSISTOR&gt;</td><td></td><td>Q166 Q167 Q168 Q170</td><td>8-729-216-22 8-729-216-22 8-729-120-28</td><td>TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6</td><td></td></trai<>	NSISTOR>		Q166 Q167 Q168 Q170	8-729-216-22 8-729-216-22 8-729-120-28	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6	
0102 0103 0104 0105	8-729-120-28 8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 25C1623-L5L6 TRANSISTOR 25C1623-L5L6 TRANSISTOR 25C1623-L5L6 TRANSISTOR 25C1623-L5L6 TRANSISTOR 25C1623-L5L6		Q172 Q173	8-729-120-28 8-729-216-22	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G	
Q106 Q107	8-729-120-28 8-729-120-28	TRANSISTOR 25C1623-L5L6 TRANSISTOR 25C1623-L5L6 TRANSISTOR 25C1623-L5L6		Q175 Q176	8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
Q108 Q109 Q112	8-729-216-22 8-729-901-01 8-729-120-28	TRANSISTOR 25C1023-L5L6 TRANSISTOR DTC144EK TRANSISTOR 25C1623-L5L6		Q177 Q178 Q179	8-729-120-28 8-729-901-01	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144EK	
Q113 Q114 Q115	8-729-120-28 8-729-216-22	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6		Q190	8-729-216-22	TRANSISTOR IMX1 TRANSISTOR 2SA1162-G	
Q116 Q117 Q118	8-729-120-28 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6		Q191 Q192 Q193 Q194	8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6	
Q119 Q120 Q121	0 147 410 44	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6		Q196 Q197	8-729-120-28	TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G	
Q122 Q123	8-729-216-22 8-729-120-28	TRANSISTOR 2SA1162-G  TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G		Q198 Q199 Q200	8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR DTA144EK	
Q124 Q125 Q126 Q127	8-729-216-22 8-729-120-28 8-729-901-01 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G		Q201 Q202 Q203	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
Q128 Q129	8-729-216-22	TRANSISTOR 25A1162-G TRANSISTOR DTC144EK		0204 0205	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
Q130 Q131 Q132	8-729-216-22 8-729-120-28	TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G		Q206 Q208 Q209 Q210	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2551-O TRANSISTOR 2SC2551-O	
Q133 Q134 Q135		TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144EK TRANSISTOR 2SC1623-L5L6		Q211 Q212	8-729-255-12	TRANSISTOR 2SC2551-0 TRANSISTOR 2SK94-X2X3X4	
Q136 Q137	8-729-907-26	TRANSISTOR IMX1 TRANSISTOR IMX1		Q299	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

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	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK	
JR105	1-216-295-91	ISTOR>	Ō	5%	1/10W		R169 R170 R171	1-216-033-00 1-216-089-91 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 47K 1.5K	5% 5% 5%	1/10W 1/10W 1/10W		
JR138	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R172 R173 R174	1-216-043-00 1-216-093-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE	560 68K 6.8K 2.2K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W		
R101 R102 R103 R104	1-216-089-91 1-216-025-00 1-216-091-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 100 56K 3.3K 100	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R175 R176 R177 R178	1-216-057-00 1-216-065-00 1-216-073-00 1-216-089-91		4.7K 10K 47K 22K	5%	1/10W 1/10W 1/10W		
R105 R106 R107	1-216-025-00 1-216-065-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE			1/10W 1/10W 1/10W		R178 R179 R180 R181	1-216-081-00 1-216-679-11 1-216-071-00	METAL GLAZE METAL CHIP METAL GLAZE	22K 15K 8.2K	5% 0.50%	1/10W 1/10W 1/10W 1/10W		
R108 R109 R110	1-216-113-00 1-216-065-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 100 470K 4.7K 1K		1/10W 1/10W 1/10W		R182 R183 R184 R185	1-216-683-11 1-216-691-11 1-216-699-11 1-216-073-00 1-216-113-00	METAL CHIP METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE	47K 100K	0.50% 0.50% 0.50% 5% 5%	1/10W 1/10W		
R111 R112 R113 R114	1-216-063-00 1-216-049-00 1-249-401-11 1-216-045-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE	3.9K 1K 47 680 3.3K	5% 5% 5%	1/10W 1/10W 1/4W 1/10W	F	R186 R187 R188	1-216-073-00 1-216-113-00	METAL GLAZE METAL GLAZE			1/10W 1/10W		
R115 R117 R118	1-216-061-00 1-216-073-00 1-216-025-00	METAL GLAZE METAL GLAZE	10K	5% 5%	1/10W 1/10W 1/10W		R189 R190 R191	1-216-103-91 1-216-107-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 470K 180K 270K 100K		1/10W 1/10W 1/10W		
R119 R120 R121	1-216-647-11 1-216-647-11 1-216-025-00	METAL CHIP METAL CHIP METAL GLAZE	100	0.50% 0.50% 5%	1/10W 1/10W 1/10W		R192 R193 R194 R195	1-216-103-91 1-216-105-00 1-216-089-91 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	180K 220K 47K 470K 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		
R122 R123 R124 R125 R126	1-216-083-00 1-216-073-00 1-216-073-00 1-216-083-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	27K 10K 10K 27K 68K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R196 R197 R198 R199	1-216-073-00 1-216-671-11 1-216-049-00 1-216-065-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE	6 8K	ก รถช	1/10W 1/10W 1/10W		
R127 R128	1-216-037-00 1-216-083-00 1-216-067-00	METAL GLAZE			1/10W 1/10W		R200 R201	1-216-065-00 1-216-043-00	METAL GLAZE METAL GLAZE	1K 4.7K 4.7K 560				
R129 R130 R131	1-216-097-00 1-216-089-91	METAL GLAZE METAL GLAZE	330 27K 5.6K 100K 47K		1/10W 1/10W 1/10W		R202 R203 R204 R205	1-216-033-00 1-216-045-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE	220 680 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		
R132 R133 R134 R135 R136	1-216-057-00 1-216-079-00 1-216-645-11 1-216-645-11 1-216-091-00	METAL GLAZE METAL CHIP METAL CHIP	2.2K 18K 560 560 56K	5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W		R206 R207 R208 R209	1-216-043-00 1-216-045-00 1-216-671-11 1-216-043-00	METAL GLAZE	560 680 6.8K 560	5% 0.50%	1/10W 1/10W 1/10W 1/10W		
R137 R138	1-216-045-00 1-216-657-11	METAL GLAZE METAL CHIP	680 1.8K	5% 0.50%	1/10W 1/10W		R210 R211	1-216-033-00 1-216-099-00	METAL GLAZE METAL GLAZE	120K		1/10W		
R139 R140 R141	1-216-079-00 1-216-653-11 1-216-063-00	METAL GLAZE METAL CHIP METAL GLAZE	3.9K	5% 0.50% 5%	1/10W		R212 R213 R214 R215	1-216-065-00 1-216-043-00 1-216-043-00 1-216-147-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 560 560 1.8M	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		
R142 R143 R145 R146 R147	1-216-073-00 1-216-085-00 1-216-065-00 1-216-037-00 1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 33K 4.7K 330 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R216 R217 R218 R219	1-216-043-00 1-216-033-00 1-216-295-91 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 220 0 560	5%	1/10W 1/10W 1/10W 1/10W		
R148 R155 R157	1-216-671-11 1-216-655-11	METAL CHIP METAL CHIP	6.8K 1.5K	0.50% 0.50%	1/10W 1/10W		R220 R221	1-216-043-00 1-216-035-00	METAL GLAZE METAL GLAZE	560 270	5% 5% 5%	1/10W 1/10W		
R158 R160	1-216-679-11 1-216-677-11 1-216-065-00	METAL CHIP METAL CHIP METAL GLAZE	15K 12K 4.7K	0.50% 5%	1/10W 1/10W 1/10W		R222 R223 R224 R225 R226	1-216-033-00 1-216-073-00 1-216-073-00 1-216-095-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 10K 10K 82K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		
R161 R163 R164 R165 R166	1-216-089-91 1-216-073-00 1-216-677-11 1-216-107-00	METAL GLAZE METAL GLAZE METAL CHIP METAL GLAZE	47K 10K 12K 270K	5%	1/10W 1/10W 1/10W 1/10W		R226 R227 R228 R229	1-216-073-00 1-216-035-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 270 4.7K 470K	5% 5% 5%	1/10W 1/10W 1/10W		
R167 R168	1-208-812-11 1-216-635-11 1-216-103-91	METAL CHIP METAL CHIP METAL GLAZE	18K 220 180K	0.50%	1/10W 1/10W 1/10W		R230 R231	1-216-113-00 1-216-081-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 470K	5% 5% 5%	1/10W 1/10W 1/10W		



REF.NO.	PART NO.	DESCRIPTION				REMARK	!REF.NO.	PART NO.	DESCRIPTION				REMARK
R232 R233 R234 R235 R236	1-216-105-00 1-216-073-00 1-216-041-00 1-216-041-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220K 10K 470 470 15K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R303 R304 R305 R306 R307	1-216-065-00 1-216-049-00 1-216-049-00 1-216-089-91 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 1K 1K 47K 220	5% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R237 R238 R239 R240 R241	1-216-025-00 1-216-065-00 1-216-065-00 1-216-033-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 4.7K 4.7K 220 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R308 R309 R310 R311 R312	1-216-089-91 1-216-089-91 1-216-033-00 1-216-089-91 1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 220 47K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R242 R243 R244 R245 R246	1-216-051-00 1-216-113-00 1-216-065-00 1-216-679-11 1-216-103-91	METAL GLAZE METAL GLAZE	1.2K 470K 4.7K 15K 180K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		R313	1-216-033-00 1-216-089-91 1-216-113-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 47K 470K 220K	55 55555555555555555555555555555555555	1/10W 1/10W 1/10W 1/10W	
R247 R248 R249 R250 R251	1-216-093-00 1-216-095-00 1-216-109-00 1-216-101-00 1-216-105-00	METAL GLAZE METAL GLAZE	68K 82K 330K 150K 220K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R318 R319 R320 R321	1-216-109-00 1-216-105-00 1-216-099-00 1-216-099-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330K 220K 120K 120K 560	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R252 R253 R254 R255 R256	1-216-101-00 1-216-101-00 1-216-033-00 1-216-061-00 1-216-107-00	METAL GLAZE	150K 150K 220 3.3K 270K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R322 R323 R324 R325 R326	1-216-109-00 1-216-109-00 1-216-109-00 1-216-097-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330K 330K 330K 100K 470K	55% 55% 55% 55%	1/10W 1/10W 1/10W 1/10W 1/10W	
R258 R259 R260 R261	1-216-041-00 1-216-073-00 1-216-025-00 1-216-035-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 10K 100 270 100K		1/10W 1/10W 1/10W 1/10W		R328 R329 R330 R331	1-216-073-00 1-216-107-00 1-216-107-00 1-216-025-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 270K 220K	5% 5%	1/10W 1/10W 1/10W 1/10W	
R262 R263 R264	1-216-097-00 1-216-029-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	150 4.7K		1/10W 1/10W 1/10W		R332 R333 R334	1-216-097-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 100K 100K 100	5%	1/10W 1/10W 1/10W	
R265 R266 R267	1-216-067-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R335 R336 R337 R338	1-216-099-00 1-216-095-00 1-216-105-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	82K 220K 100	5%	1/10W 1/10W 1/10W 1/10W	
R268 R269 R270 R271 R272	1-216-081-00 1-216-103-91 1-216-081-00 1-216-025-00 1-216-103-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 180K 22K 100 180K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R339 R340 R341 R342 R343	1-216-099-00 1-216-095-00 1-216-105-00 1-216-047-00 1-216-053-00	METAL GLAZE	120K 82K 220K 820 1.5K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R273 R275 R276 R277 R278	1-216-113-00 1-216-081-00 1-216-037-00 1-216-049-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 22K 330 1K 2.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R344 R345 R346 R348	1-216-664-11 1-216-661-11 1-216-105-00 1-216-061-00	METAL CHIP METAL GLAZE METAL GLAZE	3.6K 2.7K 220K 3.3K	0.50% 0.50% 5% 5%	1/10W 1/10W 1/10W	
R280 R281 R282 R283 R284	1-216-061-00 1-216-061-00 1-216-037-00 1-216-049-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 3.3K 330 1K 2.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R349 R350 R351 R352 R353	1-216-650-11 1-216-653-11 1-216-650-11 1-216-653-11 1-216-650-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	910 1.2K 910 1.2K 910	0.50% 0.50% 0.50% 0.50% 0.50%	1/10W 1/10W 1/10W	
R286 R287	1-216-061-00 1-216-061-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 3.3K 330	5% 5%	1/10W 1/10W 1/10W		R354 R355	1-216-653-11 1-216-113-00 1-216-113-00	METAL CHIP METAL GLAZE METAL GLAZE	1.2K 470K 470K	0.50% 5%	1/10W 1/10W 1/10W	
R288 R289 R290 R292 R293	1-216-049-00 1-216-059-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 2.7K 3.3K	5% 5%	1/10W 1/10W 1/10W		R357 R358 R359 R360	1-216-095-00 1-216-113-00 1-216-081-00 1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82K 470K 22K 47K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W	
R295 R296 R297	1-216-061-00 1-216-057-00 1-216-659-11 1-216-659-11	METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP	3.3K 2.2K 2.2K 2.2K	0.50%	1/10W 1/10W 1/10W 1/10W		R363 R364 R365 R368	1-216-069-00 1-216-073-00 1-216-073-00 1-216-055-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 10K 10K 1.8K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R298 R300 R301 R302	1-216-065-00 1-216-065-00 1-216-065-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 4.7K 470K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R369 R370 R371	1-216-248-00 1-216-115-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE	120K 560K 5.6K	5% 5% 5%	1/8W 1/10W 1/10W	



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK	
R372 R374 R375 R376 R378	1-216-115-00 1-216-115-00 1-216-683-11 1-216-663-11 1-216-025-00 1-216-641-11	METAL GLAZE METAL CHIP METAL CHIP METAL GLAZE	3.3K 100	0.50% 0.50% 5%	1/10W 1/10W		R1046 R1047 R1048 R1049	1-216-125-00 1-216-689-11 1-216-065-00 1-216-049-00 1-216-085-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	1.5M 39K 4.7K 1K 33K 2.7K	0.50% 5% 5%	1/10W 1/10W 1/10W		
R380 R381 R382 R383	1-208-799-11 1-216-089-91 1-216-025-00 1-216-641-11 1-208-799-11	METAL CHIP METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP	47K 100 390 5.1K	0.50% 5% 5% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W		R1054	1-216-059-00 1-216-105-00 1-216-091-00 1-216-093-00 1-216-097-00 1-216-037-00	METAL GLAZE	220K 56K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W		
R385 R386 R387 R388 R389	1-216-117-00 1-216-025-00 1-216-641-11 1-208-799-11 1-216-089-91 1-216-105-00	METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE		0.50%	1/10W 1/10W 1/10W 1/10W 1/10W		R1059	1-216-065-00 1-216-109-00 1-216-109-00 1-216-109-00 1-216-109-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 330K 330K 330K 330K		1/10W 1/10W 1/10W 1/10W 1/10W		
R391 R392 R393 R394 R397	1-216-081-00 1-216-113-00 1-216-085-00 1-216-113-00 1-249-437-11 1-249-434-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON CARBON	47K 220K 22K 470K 33K 470K 47K 27K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/4W 1/4W	F	R1064 R1065 R1066	1-216-103-91 1-216-103-91 1-216-103-91 1-216-103-91 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	180K 180K 180K 180K 10K		1/10W 1/10W 1/10W 1/10W 1/10W		
R399 R1001 R1002 R1003 R1004	1-216-073-00 1-216-073-00 1-216-047-00 1-216-055-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 820 1.8K 3.3K 820 1.8K	5%	1/10W 1/10W 1/10W 1/10W 1/10W	r	R1070 R1071 R1072	1-216-073-00 1-216-049-00 1-216-133-00 1-216-085-00 1-216-113-00 1-216-099-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 3.3M 33K 470K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		
R1006 R1007 R1008 R1009	1-216-061-00 1-216-047-00 1-216-053-00	METAL GLAZE	3.3K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W		R1076 R1077	1-216-131-11 1-216-065-00 1-216-101-00 1-216-103-91 1-216-131-11 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	120K 2.7M 4.7K 150K 180K 2.7M 100K		1/10W 1/10W 1/10W 1/10W 1/10W		
R1012 R1013 R1014 R1015	1-216-246-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.2K 1.2K	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W 1/10W 1/10W		R1081 R1082 R1083 R1084 R1086	1-216-097-00 1-216-105-00 1-216-065-00 1-216-063-00 1-216-073-00 1-216-121-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.7M 100K 100K 220K 4.7K 3.9K 10K 1M	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W		
R1017 R1018 R1019 R1020	1-216-045-00 1-216-043-00 1-216-033-00 1-216-089-91 1-216-045-00	METAL GLAZE METAL GLAZE	680 560 220 47K 680	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1088 R1090	1-216-047-00 1-216-049-00 1-216-049-00 1-216-049-00 1-216-121-00 1-216-075-00	METAL GLAZE METAL GLAZE	820 1K 1K 1K 1M	5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W		
	1-216-025-00 1-216-073-00 1-216-025-00 1-216-033-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 10K 100 220 3.3K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1095 R1096 R1200 R1201 R1207	1-216-075-00 1-216-075-00 1-216-699-11 1-218-754-11 1-216-061-00	METAL GLAZE METAL CHIP METAL CHIP METAL CHIP METAL GLAZE		5% 5% 0.50% 0.50% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		
R1027 R1028 R1029 R1030 R1031	1-216-101-00 1-216-033-00 1-216-061-00 1-216-089-91 1-216-033-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150K 220 3.3K 47K 220	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1208 R1220 R1221 R1222 R1223 R1225	1-216-065-00 1-216-055-00 1-216-055-00 1-216-055-00 1-216-689-11 1-215-876-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE	1.8K 1.8K 1.8K 1.8K 39K	5% 5%% 55%% 55%%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	F	
R1033 R1035 R1036 R1038	1-216-081-00 1-216-073-00 1-216-089-91 1-216-081-00 1-216-025-00 1-216-047-00	METAL GLAZE	22K 10K 47K 22K 100 820	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W		R1226 R1227 R1228 R1229 R1230	1-215-876-00 1-215-876-00 1-249-421-11 1-249-421-11 1-249-421-11	METAL OXIDE METAL OXIDE CARBON CARBON CARBON	15K 15K 2.2K 2.2K 2.2K	5% 5% 5% 5%	1W 1	F F F	
R1043	1-216-047-00 1-216-057-00 1-216-061-00	METAL GLAZE METAL GLAZE	2.2K 3.3K	5%	1/10W 1/10W 1/10W		R1231 R1232	1-216-029-00 1-216-029-00	METAL GLAZE METAL GLAZE	150 150	5% 5%	1/10W 1/10W		

# VM-9041QM/9044QM



The components identified by shading and mark \(\Lambda\) are critical for safety.

Replace only with part number specified.

REF.N	D. PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R123 R123 R123 R123 R123	5 1-216-029-00 6 1-216-029-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	150 150 150 150 1.5K	5%	1/10W 1/10W 1/10W 1/10W 1/4W	F	R1352 R1353	1-216-073-00 1-216-073-00 1-216-115-00 1-216-057-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 10K 5% 560K 5% 2.2K 5% 2.2K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R123 R123 R127 R127 R128	9 1-249-419-11 0 1-216-079-00 1 1-216-057-00	CARBON CARBON METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 1.5K 18K 2.2K 330K	5% 5%	1/4W 1/4W 1/10W 1/10W 1/10W		R1373	1-216-057-00 1-216-089-91 1-216-095-00	METAL GLAZE	2.2K 5% 47K 5% 82K 5%	1/10W 1/10W 1/10W	
R128 R129 R129 R129 R129	0 1-216-071-00 1 1-216-081-00 4 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220K 8.2K 22K 6.8K 330K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV101 RV102 RV103 RV104	1-241-763-11 1-241-763-11	RES, ADJ, CA	RMET 4.7K RMET 4.7K RBON 220		
R129 R129 R129 R129 R130	7 1-216-071-00 8 1-216-071-00 9 1-216-071-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82K 8.2K 8.2K 8.2K 47K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV105 RV106 RV107 RV108	1-241-761-11 1-241-761-11 1-241-761-11 1-241-630-11 1-241-765-11	RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA	RBON 1K RBON 1K RBON 1K RBON 10K		
R130 R130 R130	1 1-216-065-00 2 1-216-113-00 3 1-216-113-00 4 1-216-091-00 5 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 470K 470K 56K 68K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV110 RV111 RV112 RV113	1-241-630-11 1-241-630-11 1-238-019-11 1-238-019-11	RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA	RBON 10K RBON 10K RBON 47K RBON 47K		
R130 R130	8 1-216-041-00 9 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 470 470 3.9K 820K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV115 RV116 RV118 RV119	1-241-765-11	RES, ADJ, CARES, A	ARBON 22K Arbon 22K Arbon 22K Arbon 22K		
R131 R131 R132	3 1-216-101-00 4 1-216-053-00 5 1-216-077-00 0 1-216-083-00 1 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150K 1.5K 15K 27K 68K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV121 RV122 RV123 RV124	1-241-765-11 1-241-765-11 1-241-628-11 1-241-761-11	RES, ADJ, CARES, A	ARBON 22K ARBON 22K ARBON 2.2K ARBON 1K		
R132 R132 R132 R132 R132	3 1-216-057-00 4 1-216-121-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330 2.2K 1M 33K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV205	1-241-761-11 1-241-765-11 <mod< td=""><td>RES, ADJ, CA ULE&gt;</td><td>IRBON 1K</td><td></td><td></td></mod<>	RES, ADJ, CA ULE>	IRBON 1K		
R133		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	120K 120K 68K 3.9K 1.2K	55555555555555555555555555555555555555	1/10W 1/10W 1/10W 1/10W 1/10W		X101	1-527-722-00	STAL>			
R133 R133 R133 R133 R133	3 1-216-057-00 4 1-216-055-00 5 1-216-035-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 2.2K 1.8K 270 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W			1-577-259-11 ***********************************	*********	:*************************************	******	*****
R133 R133 R134 R134	8 1-216-049-00 9 1-216-097-00 0 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 1K 100K 100K 390K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C801 C802	1-126-104-11 1-162-318-11	CERAMIC	470MF 0.001MF	20% 10%	35V 500V
R134 R134 R134 R134	3 1-216-121-00 4 1-216-073-00 5 1-216-055-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	62K 1M 10K 1.8K 820	0.50% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C803 C804 C806 C807 C808	1-102-228-00 1-123-935-00 1-124-480-11 1-102-228-00 1-106-367-00	MYLAR	470PF 33MF 470MF 470PF 0.01MF	10% 20% 20% 10%	500V 160V 25V 500V 100V
R134 R134 R135 R135	8 1-216-073-00 19 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W			1-106-375-12 1-162-318-11 \(\) 1-137-544-91 \(\) 1-137-545-91	CERAMIC FILM	0.022MF 0.001MF 0.01MF	10% 10% 3% 3%	100V 500V 600V

The components identified by shading and mark 点 are critical for safety.
Replace only with part number specified.

P	FA	QA
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REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK	
	MYLAR ELECT ELECT FILM	0.056MF 0.047MF 22MF 1MF 2.2MF	5% 10% 20% 20% 10%	200V 100V 50V 160V 250V	R807 R808 R809 R810 R811	1-216-425-11 1-202-846-00 1-216-089-91 1-249-421-11 1-216-049-00	METAL OXIDE SOLID METAL GLAZE CARBON METAL GLAZE	56 5% 470K 20% 47K 5% 2.2K 5% 1K 5%	1W 1/2W 1/10W 1/4W 1/10W	F	
C818 1-102-228-00 C819 1-162-116-00 C820 1-162-116-00 C821 1-162-116-00 C825 1-123-024-21	CERAMIC CERAMIC CERAMIC	470PF 680PF 680PF 680PF 33MF	10% 10% 10% 10%	500V 2KV 2KV 2KV 160V	R812 R813 R814	1-249-439-11 1-249-414-11 1-249-377-11	CARBON	68K 5% 560 5% 0.47 5%	1/4W 1/4W 1/4W	F	
C880 1-163-031-11	CERAMIC CHIP	0.01MF		50V	i ! !	<var< td=""><td>IABLE RESISTOR</td><td>&gt;</td><td></td><td></td><td></td></var<>	IABLE RESISTOR	>			
<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td>RV801</td><td>1-223-102-00</td><td>RES, ADJ, WIR</td><td>EWOUND 120</td><td></td><td></td><td></td></con<>	NECTOR>				RV801	1-223-102-00	RES, ADJ, WIR	EWOUND 120			
CN801 1-564-595-11 CN802 +1-508-766-00	PLUG, CONNECT	OR 14P			! ! !	<tra< td=""><td>NSFORMER&gt;</td><td></td><td></td><td></td><td></td></tra<>	NSFORMER>				
CN802 *1-508-766-00 CN803 *1-564-508-11 CN805 *1-560-123-00	PLUG, CONNECT	OR 5P			7801 7802 <u>A</u>	1-437-082-31 1-439-526-12	HDT TRANSFORMER A	SSY, FLYBAC	CK		
<di0< td=""><td>DE&gt;</td><td></td><td></td><td></td><td>*****</td><td>*******</td><td>**********</td><td>********</td><td>******</td><td>******</td><td>*</td></di0<>	DE>				*****	*******	**********	********	******	******	*
D801 8-719-302-43 D802 8-719-302-43	DIODE EL1Z DIODE EL1Z				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*A-1241-070-A	FA BOARD, COM				
D803 8-719-302-43 D804 8-719-979-85	DIODE EGP20G					<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td></cap<>	ACITOR>				
D805 8-719-302-43 D806 8-719-302-43					C601	1-136-185-00	FILM	0.22MF	20%	250V	
D807 8-719-105-99 D808 8-719-018-72 D809 8-719-908-03	DIODE RD6.2M- THYRISTOR CRO DIODE GPO8D	B1 2AM-4TB			CNCOL		NECTOR>	nn /nc nosn	0) 40		
D810 8-719-908-03  D811 8-719-908-03  D813 8-719-302-43	DIODE GPO8D DIODE GPO8D				! CN602	*1-580-689-11 *1-508-765-00 *1-564-507-11	PIN. CONNECTO	IR (5MM PITO	H) 3P		
0 117 302 43	D1000 0010					<fus< td=""><td>E&gt;</td><td></td><td></td><td></td><td></td></fus<>	E>				
<c01< td=""><td></td><td></td><td></td><td></td><td>    F601 <i>₫</i></td><td>1-576-230-11</td><td>FUSE (H.B.C.)</td><td>(3.15A/250</td><td>OV)</td><td></td><td></td></c01<>					   F601 <i>₫</i>	1-576-230-11	FUSE (H.B.C.)	(3.15A/250	OV)		
L802 1-459-442-00 L803 1-422-613-11	COIL (WITH CO	E				1-533-223-11					
L804 1-459-109-00 L805 1-460-225-11	COIL, HORIZON	TAL LINEARI	TY		ì	\nc3	ISTOR>				
L804 1-459-109-00 L805 1-460-225-11 L806 1-414-098-11	COIL, HORIZON MICRO INDUCTO	TAL LINEARI R 10MMH	TY		R602	1-214-945-00		2.2M 5%	1/2W		
L804 1-459-109-00 L805 1-460-225-11 L806 1-414-098-11	COIL, HORIZON MICRO INDUCTO MICRO INDUCTO	TAL LINEARI R 10MMH	TY		R602	1-214-945-00	METAL	2.2M 5%	1/2W		
L804 1-459-109-00 L805 1-460-225-11 L806 1-414-098-11 L807 1-414-098-11 L810 1-412-529-11	COIL, HORIZON MICRO INDUCTO MICRO INDUCTO	TAL LINEARI R 10MMH R 10MMH	TY		R602	1-214-945-00 <swi< td=""><td>METAL</td><td></td><td></td><td></td><td></td></swi<>	METAL				
L804 1-459-109-00 L805 1-460-225-11 L806 1-414-098-11 L807 1-414-098-11 L810 1-412-529-11	COIL, HORIZON MICRO INDUCTO MICRO INDUCTO INDUCTOR N LAMP>	TAL LINEARI R 10MMH R 10MMH	TY		S601	1-214-945-00 <swi< td=""><td>METAL TCH&gt; SWITCH, PUSH</td><td>(AC POWER)</td><td>(1KEY)</td><td>******</td><td>r#</td></swi<>	METAL TCH> SWITCH, PUSH	(AC POWER)	(1KEY)	******	r#
L804 1-459-109-00 L805 1-460-225-11 L806 1-414-098-11 L807 1-414-098-11 L810 1-412-529-11 <neo 1-519-108-99<="" nl801="" td=""><td>COIL, HORIZON MICRO INDUCTO MICRO INDUCTO INDUCTOR N LAMP&gt;</td><td>TAL LINEARI R 10MMH R 10MMH</td><td>ΤΥ</td><td></td><td>S601</td><td>1-214-945-00 <swi 1-692-050-11</swi </td><td>METAL TCH&gt; SWITCH, PUSH</td><td>(AC POWER)</td><td>(1KEY)</td><td>******</td><td>:<b>#</b></td></neo>	COIL, HORIZON MICRO INDUCTO MICRO INDUCTO INDUCTOR N LAMP>	TAL LINEARI R 10MMH R 10MMH	ΤΥ		S601	1-214-945-00 <swi 1-692-050-11</swi 	METAL TCH> SWITCH, PUSH	(AC POWER)	(1KEY)	******	: <b>#</b>
L804 1-459-109-00 L805 1-460-225-11 L806 1-414-098-11 L807 1-414-098-11 L810 1-412-529-11 <neo NL801 1-519-108-99  <tra< td=""><td>COIL, HORIZON MICRO INDUCTO MICRO INDUCTO INDUCTOR  N LAMP&gt; LAMP, NEON  NSISTOR&gt;  TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S HOLDER, IC: Q SCREW (M3X8),</td><td>TAL LINEARI R 10MMH R 10MMH 22UH C2555-L C2555-2 802 P, SW (+);</td><td></td><td></td><td>S601</td><td>1-214-945-00 <swi 1-692-050-11 ***********************************</swi </td><td>METAL  TCH&gt; SWITCH, PUSH  ***********************************</td><td>(AC POWER)  *************  IPLETE  ******  D B, INPUT/0</td><td>(1KEY)</td><td>******</td><td><b>*</b></td></tra<></neo 	COIL, HORIZON MICRO INDUCTO MICRO INDUCTO INDUCTOR  N LAMP> LAMP, NEON  NSISTOR>  TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S HOLDER, IC: Q SCREW (M3X8),	TAL LINEARI R 10MMH R 10MMH 22UH C2555-L C2555-2 802 P, SW (+);			S601	1-214-945-00 <swi 1-692-050-11 ***********************************</swi 	METAL  TCH> SWITCH, PUSH  ***********************************	(AC POWER)  *************  IPLETE  ******  D B, INPUT/0	(1KEY)	******	<b>*</b>
L804 1-459-109-00 L805 1-460-225-11 L806 1-414-098-11 L807 1-412-529-11 <neo 1-519-108-99="" 4-382-854-01="" 4-879-937-00<="" 8-729-195-82="" 8-729-201-62="" <tra="" nl801="" q801="" q802="" td="" ±4-043-154-01=""><td>COIL, HORIZON MICRO INDUCTO MICRO INDUCTO INDUCTOR  N LAMP&gt; LAMP, NEON  NSISTOR&gt;  TRANSISTOR 2S TRANSISTOR 2S HOLDER, IC: Q SCREW (M3X8),</td><td>TAL LINEARI R 10MMH R 10MMH 22UH C2555-2 802 P, SW (+); Q802</td><td></td><td></td><td>\$601 ******</td><td>1-214-945-00  <swi *************="" *a-1275-121-a="" 1-537-408-21="" 1-537-410-11="" 1-692-050-11="" <cap<="" td=""><td>METAL  TCH&gt; SWITCH, PUSH  ***********************************</td><td>(AC POWER)  ***********************************</td><td>(1KEY)  ********  DUTPUT  DUTPUT</td><td></td><td><b>*</b></td></swi></td></neo>	COIL, HORIZON MICRO INDUCTO MICRO INDUCTO INDUCTOR  N LAMP> LAMP, NEON  NSISTOR>  TRANSISTOR 2S TRANSISTOR 2S HOLDER, IC: Q SCREW (M3X8),	TAL LINEARI R 10MMH R 10MMH 22UH C2555-2 802 P, SW (+); Q802			\$601 ******	1-214-945-00 <swi *************="" *a-1275-121-a="" 1-537-408-21="" 1-537-410-11="" 1-692-050-11="" <cap<="" td=""><td>METAL  TCH&gt; SWITCH, PUSH  ***********************************</td><td>(AC POWER)  ***********************************</td><td>(1KEY)  ********  DUTPUT  DUTPUT</td><td></td><td><b>*</b></td></swi>	METAL  TCH> SWITCH, PUSH  ***********************************	(AC POWER)  ***********************************	(1KEY)  ********  DUTPUT  DUTPUT		<b>*</b>
L804 1-459-109-00 L805 1-460-225-11 L806 1-414-098-11 L807 1-412-529-11 <nee> <neo< td=""><td>COIL, HORIZON MICRO INDUCTO MICRO INDUCTO INDUCTOR  N LAMP&gt; LAMP, NEON  NSISTOR&gt;  TRANSISTOR 2S TRANSISTOR 2S HOLDER, IC; SCREW (M3X8), SHEET, MICA; TRANSISTOR 2S</td><td>TAL LINEARI R 10MMH R 10MMH 22UH C2555-2 802 P, SW (+); Q802</td><td></td><td></td><td>S601</td><td>1-214-945-00  <swi ***********="" *a-1275-121-a="" 1-124-234-00="" 1-124-234-00<="" 1-537-408-21="" 1-537-410-11="" 1-692-050-11="" <cap="" td=""><td>METAL  TCH&gt; SWITCH, PUSH  ***********************************</td><td>(AC POWER)  ********  PLETE  ******  D. B. INPUT/C  A. INPUT/C  22MF  22MF  22MF</td><td>(1KEY)  OUTPUT  OUTPUT  20% 20% 20% 20%</td><td>16V 16V 16V</td><td>F#</td></swi></td></neo<></nee>	COIL, HORIZON MICRO INDUCTO MICRO INDUCTO INDUCTOR  N LAMP> LAMP, NEON  NSISTOR>  TRANSISTOR 2S TRANSISTOR 2S HOLDER, IC; SCREW (M3X8), SHEET, MICA; TRANSISTOR 2S	TAL LINEARI R 10MMH R 10MMH 22UH C2555-2 802 P, SW (+); Q802			S601	1-214-945-00 <swi ***********="" *a-1275-121-a="" 1-124-234-00="" 1-124-234-00<="" 1-537-408-21="" 1-537-410-11="" 1-692-050-11="" <cap="" td=""><td>METAL  TCH&gt; SWITCH, PUSH  ***********************************</td><td>(AC POWER)  ********  PLETE  ******  D. B. INPUT/C  A. INPUT/C  22MF  22MF  22MF</td><td>(1KEY)  OUTPUT  OUTPUT  20% 20% 20% 20%</td><td>16V 16V 16V</td><td>F#</td></swi>	METAL  TCH> SWITCH, PUSH  ***********************************	(AC POWER)  ********  PLETE  ******  D. B. INPUT/C  A. INPUT/C  22MF  22MF  22MF	(1KEY)  OUTPUT  OUTPUT  20% 20% 20% 20%	16V 16V 16V	F#
L804 1-459-109-00 L805 1-460-225-11 L806 1-414-098-11 L807 1-412-529-11 <nee> <neo <nee=""> <nee <nee=""> <nee <n<="" <nee="" td=""><td>COIL, HORIZON MICRO INDUCTO INDUCTOR  N LAMP&gt; LAMP, NEON  NSISTOR&gt;  TRANSISTOR 2S TRANSISTOR 2S HOLDER, IC; Q SCREW (M3X8), SHEET, MICA;  TRANSISTOR 2S</td><td>TAL LINEARI R 10MMH 22UH 22UH 6C2555-2 802 P, SW (+); 9802</td><td><b>Q</b>802</td><td>F</td><td>S601 ****** C401 C402</td><td>1-214-945-00  <swi ************="" *a-1275-121-a="" 1-124-234-00="" 1-124-234-00<="" 1-537-408-21="" 1-537-410-11="" 1-692-050-11="" <cap="" td=""><td>METAL  TCH&gt; SWITCH, PUSH  ***********************************</td><td>(AC POWER)  ********  ******  D B, INPUT/C  A, INPUT/C  22MF  22MF</td><td>(1KEY)  OUTPUT OUTPUT  20% 20%</td><td>16V 16V</td><td>**</td></swi></td></nee></nee></neo></nee>	COIL, HORIZON MICRO INDUCTO INDUCTOR  N LAMP> LAMP, NEON  NSISTOR>  TRANSISTOR 2S TRANSISTOR 2S HOLDER, IC; Q SCREW (M3X8), SHEET, MICA;  TRANSISTOR 2S	TAL LINEARI R 10MMH 22UH 22UH 6C2555-2 802 P, SW (+); 9802	<b>Q</b> 802	F	S601 ****** C401 C402	1-214-945-00 <swi ************="" *a-1275-121-a="" 1-124-234-00="" 1-124-234-00<="" 1-537-408-21="" 1-537-410-11="" 1-692-050-11="" <cap="" td=""><td>METAL  TCH&gt; SWITCH, PUSH  ***********************************</td><td>(AC POWER)  ********  ******  D B, INPUT/C  A, INPUT/C  22MF  22MF</td><td>(1KEY)  OUTPUT OUTPUT  20% 20%</td><td>16V 16V</td><td>**</td></swi>	METAL  TCH> SWITCH, PUSH  ***********************************	(AC POWER)  ********  ******  D B, INPUT/C  A, INPUT/C  22MF  22MF	(1KEY)  OUTPUT OUTPUT  20% 20%	16V 16V	**
L804 1-459-109-00 L805 1-460-225-11 L806 1-414-098-11 L807 1-412-529-11 <nee> <neo< td=""><td>COIL, HORIZON MICRO INDUCTO MICRO INDUCTO INDUCTOR  N LAMP&gt; LAMP, NEON  NSISTOR&gt;  TRANSISTOR 2S TRANSISTOR 2S HOLDER, IC; SCREW (M3X8), SHEET, MICA; TRANSISTOR 2S</td><td>TAL LINEARI R 10MMH R 10MMH 22UH C2555-2 802 P, SW (+); Q802</td><td></td><td>F ₩</td><td>\$601 ****** C401 C402 C403 C403 C404</td><td>1-214-945-00  <swi ***********="" *a-1275-121-a="" 1-124-234-00="" 1-124-234-00<="" 1-537-408-21="" 1-537-410-11="" 1-692-050-11="" <cap="" td=""><td>METAL  TCH&gt; SWITCH, PUSH  ***********************************</td><td>(AC POWER)  ********  PLETE  ******  D B, INPUT/C  A, INPUT/C  22MF  22MF  22MF  22MF</td><td>(1KEY) </td><td>16V 16V 16V 16V</td><td>***</td></swi></td></neo<></nee>	COIL, HORIZON MICRO INDUCTO MICRO INDUCTO INDUCTOR  N LAMP> LAMP, NEON  NSISTOR>  TRANSISTOR 2S TRANSISTOR 2S HOLDER, IC; SCREW (M3X8), SHEET, MICA; TRANSISTOR 2S	TAL LINEARI R 10MMH R 10MMH 22UH C2555-2 802 P, SW (+); Q802		F ₩	\$601 ****** C401 C402 C403 C403 C404	1-214-945-00 <swi ***********="" *a-1275-121-a="" 1-124-234-00="" 1-124-234-00<="" 1-537-408-21="" 1-537-410-11="" 1-692-050-11="" <cap="" td=""><td>METAL  TCH&gt; SWITCH, PUSH  ***********************************</td><td>(AC POWER)  ********  PLETE  ******  D B, INPUT/C  A, INPUT/C  22MF  22MF  22MF  22MF</td><td>(1KEY) </td><td>16V 16V 16V 16V</td><td>***</td></swi>	METAL  TCH> SWITCH, PUSH  ***********************************	(AC POWER)  ********  PLETE  ******  D B, INPUT/C  A, INPUT/C  22MF  22MF  22MF  22MF	(1KEY)	16V 16V 16V 16V	***
L804 1-459-109-00 L805 1-460-225-11 L806 1-414-098-11 L807 1-412-529-11	COIL, HORIZON MICRO INDUCTO INDUCTOR  NICRO INDUCTO INDUCTOR  N LAMP> LAMP, NEON  NSISTOR>  TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S HOLDER, IC; Q SCREW (M3X8), SHEET, MICA; TRANSISTOR 2S  ISTOR>  CARBON CARBON METAL GLAZE CARBON	TAL LINEARI R 10MMH R 10MMH 22UH C25555-2 802 P, SW (+); 0.835	Q802 1/4w 1/4w 1/100 1/4w	F F	\$601 ******* C401 C402 C403 C404 C405 C406 C407 C408 C409	1-214-945-00 <swi ************="" *a-1275-121-a="" 1-124-234-00="" 1-124-234-00<="" 1-537-408-21="" 1-537-410-11="" 1-692-050-11="" <cap="" td=""><td>METAL  TCH&gt; SWITCH, PUSH  ***********************************</td><td>(AC POWER)  **********  PLETE  B, INPUT/C  A, INPUT/C  22MF  22MF</td><td>(1KEY)  *********  DUTPUT  20% 20% 20% 20% 20% 20% 20% 20% 20% 20</td><td>16V 16V 16V 16V 16V 16V 16V 16V 16V</td><td></td></swi>	METAL  TCH> SWITCH, PUSH  ***********************************	(AC POWER)  **********  PLETE  B, INPUT/C  A, INPUT/C  22MF  22MF	(1KEY)  *********  DUTPUT  20% 20% 20% 20% 20% 20% 20% 20% 20% 20	16V 16V 16V 16V 16V 16V 16V 16V 16V	

# VM-9041QM/9044QM

# QA

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	N -	REMARK
C412 C413 C414 C415	1-124-234-00 1-124-234-00 1-126-157-11 1-126-157-11	ELECT ELECT ELECT ELECT	22MF 22MF 10MF 10MF	20% 20% 20%	16V 16V 16V 16V	D404 D405 D406	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110		
C416 C417 C418	1-126-157-11 1-126-157-11 1-126-157-11	ELECT ELECT ELECT	10MF 10MF 10MF	20% 20% 20% 20%	16V 16V 16V	D407 D408 D409 D410	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO DIODE MAILO		
C419 C420 C421	1-126-157-11 1-126-157-11 1-102-125-00	ELECT ELECT	10MF 10MF 10MF 0.0047MF	20% 20% 20% 10%	16V 16V 16V 50V	D410 D411 D412 D413	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110		
C422 C423 C424 C425		ELECT ELECT Mylar	0.22MF 10MF 10MF 0.047MF	20% 20% 20% 10%	50V 16V 16V 100V	D414 D415 D416	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO DIODE MAILO		
C426 C427 C428 C429	1-128-499-11 1-128-499-11 1-124-589-11 1-124-234-00		220MF 220MF 47MF 22MF	207 207 207	16V 16V 16V	D417 D418 D419 D420	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110		
C430 C431 C432	1-163-033-00 1-124-234-00 1-163-033-00	CERAMIC CHIP ELECT	0.022MF 22MF	20% 20%	16V 50V 16V	D421 D422 D423	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO DIODE MAILO		
C433 C434 C435	1-124-234-00 1-163-033-00 1-124-234-00	CERAMIC CHIP ELECT CERAMIC CHIP ELECT	22MF 0.022MF 22MF	20% 20%	50V 16V 50V 16V	D424 D425 D426	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAILO DIODE MAILO DIODE MAILO		
C436 C437 C438	1-163-033-00 1-163-033-00 1-124-234-00	CERAMIC CHIP	0.022MF 22MF	20%	50V 50V 16V	D427 D428 D429 D430	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110		
C439 C440 C441 C442	1-163-033-00 1-163-033-00 1-124-234-00	CERAMIC CHIP CERAMIC CHIP ELECT	0.022MF 22MF	20%	50V 50V 16V	D431		DIODE MA110		
C443 C444 C445 C446	1-163-033-00 1-163-033-00 1-163-033-00 1-163-031-11 1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.022MF 0.022MF 0.01MF		50V 50V 50V 50V 50V	IC401 IC402 IC403	<1C> 8-759-287-89 8-759-287-89 8-759-420-04	IC MM1113XFF	3	
C447 C448 C449	1-126-301-11 1-124-234-00 1-163-031-11	ELECT ELECT CERAMIC CHIP		20% 20%	50V 16V 50V	1 401	<c01< td=""><td></td><td>470111</td><td></td></c01<>		470111	
C450 C451 C452	1-124-234-00 1-163-033-00 1-128-499-11	CERAMIC CHIP	220MF	20% 20% 20%	16V 50V	L401 L402	1-410-682-31 1-410-682-31	INDUCTOR	470UH 470UH	
C453 C454 C460 C461	1-124-234-00 1-128-499-11 1-126-301-11 1-126-301-11	ELECT ELECT ELECT ELECT	22MF 220MF 1MF 1MF	20% 20% 20% 20%	16V 16V 50V 50V	Q401 Q402 Q403		TRANSISTOR 2	2SC1623-L5L6	
C462 C464 C465 C466	1-126-301-11 1-163-031-11 1-163-031-11 1-163-031-11	CERAMIC CHIP	0.01MF	20%	50V 50V 50V 50V	Q404 Q405 Q406	8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 2	2SC1623-L5L6 2SC1623-L5L6	
C466 C467 C475	1-163-031-11	CERAMIC CHIP	0.01MF		50 v 50 v	Q407 Q408 Q409 Q410	8-729-120-28 8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	2SC1623-L5L6 2SC1623-L5L6 2SC1623-L5L6	
		NECTOR>				Q411	8-729-216-22	TRANSISTOR 2		
CN403	1-506-494-11 *1-564-518-11 *1-580-690-11 *1-564-520-11	PIN, CONNECT	OR (PC BOARD	) 2P		Q412 Q413 Q414 Q416	8-729-216-22 8-729-216-22 8-729-216-22 8-729-420-81	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	2SA1162-G 2SA1162-G 2SD874A-R	
	<010	DE>		-		Q417 Q418 Q419	8-729-901-06 8-729-901-06 8-729-901-06	TRANSISTOR I	TA144EK	
D401 D402	<pre></pre>	DIODE MAILO DIODE MAILO				Q420 Q421	8-729-901-01 8-729-901-06	TRANSISTOR I	OTC144EK	
D403	8-719-110-09	DIODE RD8.2E	SB3			Q422	8-729-901-01	TRANSISTOR I	OTC144EK	

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REF.NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION	٠	L.		REMARK
Q423 Q424 Q426	8-729-901-06 8-729-901-06 8-729-120-28	TRANSISTOR DT TRANSISTOR DT TRANSISTOR 25	FA144EK FA144EK SC1623-	1.51.6			R459 R460	1-216-689-11 1-216-089-91	METAL GLAZE METAL GLAZE	39K 47K	5% 5%	1/10W 1/10W	
	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td>R461 R462 R463 R464</td><td>1-216-097-00 1-216-115-00 1-216-105-00 1-216-077-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE</td><td>100K 560K 220K 15K 100</td><td>5% 5% 5%</td><td>1/10W 1/10W 1/10W 1/10W</td><td></td></res<>	ISTOR>					R461 R462 R463 R464	1-216-097-00 1-216-115-00 1-216-105-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 560K 220K 15K 100	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R401 R402 R403 R404	1-214-702-00 1-216-049-00 1-216-093-00 1-216-091-00	METAL METAL GLAZE METAL GLAZE METAL GLAZE	75 1 K 6 8 K 5 6 K	1% 5% 5% 5%	1/4W 1/10W 1/10W 1/10W		R465	1-216-025-00 1-216-097-00 1-216-115-00	METAL GLAZE METAL GLAZE METAL GLAZE			1/10W 1/10W 1/10W	
R406 R407	1-216-037-00 1-216-689-11	METAL GLAZE METAL GLAZE METAL GLAZE	330 39K	5% 5%	1/10W 1/10W 1/10W		R470	1-216-105-00 1-216-077-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 560K 220K 15K 100		1/10W 1/10W 1/10W	
R408 R409 R410	1-216-085-00 1-214-702-00 1-216-049-00	METAL METAL GLAZE	33K 75 1K	5% 1% 5%	1/10W 1/4W 1/10W		R471 R472 R473 R474	1-216-097-00 1-216-115-00 1-216-105-00 1-216-077-00	METAL GLAZE METAL GLAZE	100K 560K 220K 15K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R411 R412 R413 R414 R415	1-216-093-00 1-216-091-00 1-216-063-00 1-216-037-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE	68K 56K 3.9K 330 3.3K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		R475 R477 R479 R480	1-216-025-00 1-216-081-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE GARRON			1/10W 1/10W 1/10W	
R416 R417 R418	1-216-023-00 1-216-049-00 1-216-093-00	METAL GLAZE METAL GLAZE	82 1K 68K 56K 3.9K		1/10W 1/10W 1/10W		R481 R482	1-247-711-11 1-247-720-11 1-249-455-11	CARBON CARBON	22K 33K 680 3.9K 4.7		1/4W 1/4W 1/4W	
R419 R420 R421	1-216-091-00 1-216-063-00 1-216-027-00	METAL GLAZE METAL GLAZE			1/10W 1/10W 1/10W		R483 R484 R485 R486 R487	1-249-389-11 1-216-041-00 1-247-688-11 1-216-037-00 1-249-468-11	CARBON METAL GLAZE CARBON METAL GLAZE CARBON	470 10 330 82K	5% 5% 5% 5% 5%	1/4W   1/10W 1/4W   1/10W 1/4W	
R422 R423 R424 R425	1-214-702-00 1-214-702-00 1-216-049-00	METAL METAL METAL GLAZE METAL GLAZE	120 75 75 1K 68K	1% 1% 5% 5%			R488 R489 R490	1-249-468-11 1-249-468-11 1-216-057-00	CARBON CARBON METAL GLAZE	82K 82K 2.2K	5% 5% 5%	1/4W 1/4W 1/10W	
R427 R428	1-216-091-00 1-216-063-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE	56K 3.9K	5% 5%	1/10W 1/10W 1/10W		R491 R492 R493	1-216-089-91 1-216-089-91 1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 47K	5% 5%	1/10W 1/10W 1/10W	
	1-216-049-00 1-216-093-00	METAL GLAZE	330 75 1K 68K		1/106		R496 R407	1-216-089-91 1-216-295-91 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 0 2.2K 47K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R432 R433 R434 R435	1-216-091-00 1-216-063-00 1-216-027-00 1-214-702-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL	68K 56K 3.9K 120 75	5% 5% 5% 1%	1/10W 1/10W 1/10W 1/4W		R498 R499 R1401	1-216-089-91 1-216-089-91 1-216-089-91 1-216-097-00 1-216-295-91 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 100K	5% 5%	1/10W 1/10W 1/10W	
K438	1-216-049-00 1-216-093-00 1-216-091-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 68 K 56 K	5% 5%	1/10W		R1410	1-216-049-00	METAL GLAZE	0 100K 1K	5% 5%	1/10W 1/10W 1/10W	
R439 R440 R441	1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 120 47K	5%	1/10W 1/10W 1/10W		R1411 R1412	1-216-089-91 1-216-113-00	METAL GLAZE METAL GLAZE	47K 470K	5% 5%	1/10W 1/10W	
R442 R443 R444 R445	1-216-049-00 1-216-689-11 1-214-702-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL METAL GLAZE	1K 39K 75 1K	5% 1%	1/10W 1/10W 1/4W 1/10W		RV401		IABLE RESISTOR: RES, VAR, CARI		K		
R446 R447 R448 R449	1-216-093-00 1-216-091-00 1-216-063-00 1-216-027-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	68K 56K 3.9K 120	5% 5%	1/10W 1/10W 1/10W 1/10W		S401	<swi< td=""><td>TCH&gt; SWITCH, SLIDE</td><td></td><td></td><td></td><td></td></swi<>	TCH> SWITCH, SLIDE				
R450	1-214-702-00	METAL	75	1%	1/4W				*********		****	******	******
R451 R452 R453 R454 R455	1-216-049-00 1-216-091-00 1-216-093-00 1-216-063-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 56K 68K 3.9K 330	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		1		CA BOARD, COMI	****	3		
R456 R457 R458	1-216-085-00 1-216-085-00 1-247-707-11	METAL GLAZE METAL GLAZE CARBON	33K 33K 390	5% 5%	1/10W 1/10W 1/10W 1/4W		C701	<cap< td=""><td>ACITOR&gt; CERAMIC (</td><td>0.0047</td><td><b>1</b>F</td><td>10% 2</td><td>2KV</td></cap<>	ACITOR> CERAMIC (	0.0047	<b>1</b> F	10% 2	2KV

# VM-9041QM/9044QM

# CA D

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION		•	REMARK
C710	1-161-830-00	CERAMIC	0.0047MF	99%	500V	C530 C531	1-163-097-00 1-131-370-00	CERAMIC CHIP	15PF 6.8MF	5% 10%	50V 16V
	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td>C532 C533</td><td>1-124-557-11 1-124-927-11</td><td>ELECT</td><td>1000MF 4.7MF</td><td>20% 20%</td><td>25V 50V</td></con<>	NECTOR>				C532 C533	1-124-557-11 1-124-927-11	ELECT	1000MF 4.7MF	20% 20%	25V 50V
CN701 = CN702 CN703 =	<00N *1-564-509-11 1-508-784-00 *1-564-508-11	PLUG, CONNECTO PIN, CONNECTO PLUG, CONNECTO	COR 6P DR (5MM PITC) COR 5P	H) 1P		C534 C535 C536	1-124-768-11 1-136-161-00	ELECT FILM	4.7MF 0.047MF 4.7MF	20% 5% 20%	50V 50V 50V
	<01	L>				C537 C538	1-124-927-11 1-124-484-11 1-124-910-11 1-136-113-00 1-163-017-00	ELECT ELECT	220MF 47MF	20% 20%	35V 50V
L701	<011 1-410-668-11	INDUCTOR	27UH			C540 C541	1-163-017-00 1-163-035-00	CERAMIC CHIP CERAMIC CHIP	2MF 0.0047MF 0.047MF	5% 10%	200V 50V 50V
	<res< td=""><td>ISTUR&gt;</td><td></td><td></td><td></td><td>C542</td><td>1-126-103-11 1-126-101-11</td><td>ELECT</td><td>470MF 100MF</td><td>20% 20%</td><td>16V 16V</td></res<>	ISTUR>				C542	1-126-103-11 1-126-101-11	ELECT	470MF 100MF	20% 20%	16V 16V
R701 R702 R703	1-202-822-00 1-202-822-00 1-202-822-00	SOLID SOLID SOLID	2.2K 20% 2.2K 20% 2.2K 20% 100K 20% 220K 20%	1/2W 1/2W 1/2W		C545 C546 C547 C548	Î-124-907-11 1-124-907-11 1-124-907-11	ELECT ELECT	10MF 10MF 10MF	20% 20% 20%	50V 50V 50V
R704 R706	1-202-838-00 1-202-842-11	SOLID SOLID	100K 20% 220K 20%	1/2W 1/2W					•	20%	50V 50V
		IABLE RESISTOR				C551 C552	1-124-907-11 1-124-907-11 1-124-927-11 1-101-004-00	ELECT CERAMIC	4.7MF 0.01MF	20% 20%	50V 50V
RV701	1-230-164-00 *4-376-132-11 *4-376-133-11	RES, ADJ, MET COVER (REAR I	TAL GLAZE 551 LID), CV VOL	M ; RV701		C563	1-126-103-11 1-106-383-00 1-163-009-11	ELECT	47UMF	20% 10%	16V 100V
*****	*4-376-133-11 ******		. CY VUL; RV *********	/U1 ******	******	(567	1-163-009-11 1-124-907-11 1-130-736-11	FIFCT		10% 20% 5%	50V 50V 50V
	*A-1346-251-A		PLETE			C569	1-130-471-00	FILM	0.001MF	5% 5% 5%	50V 50V
	∠CAD.	ACITOR>				C570 C571 C572	1-163-117-00 1-124-913-11 1-101-004-00 1-106-351-00	ELECT CERAMIC	470MF 0.01MF		50 V 50 V
C501	1-124-477-11		47MF 10MF	20%	16V	1	1 100 331 00	MYLAR MYLAR	0.0022MF	10% 10%	100V 100V
C502 C503 C504	1-124-902-00	ELECT	470MF 0.47MF	20% 20%	50V 16V 50V	C578 C831 C832			10MF	20% 20%	50V 50V 50V
C505 C506	1-124-903-11		0.039MF	10%	100V 50V	C833 C834	1-163-009-11 1-163-121-00	CERAMIC CHIP CERAMIC CHIP	0.001MF 150PF	10% 5%	50V 50V
C507 C508 C509	1-106-367-00 1-124-903-11	MYLAR ELECT FILM	1MF 0.01MF 1MF 0.47MF 0.047MF	10% 20%	100V 50V 50V	C835 C836	1-163-209-00 1-124-907-11	CERAMIC CHIP	0.0015MF 10MF	5% 20%	50V 50V
C510 C511	1-136-161-00		0.047MF	5% 5% 20%	50V 50V	C837 C838 C839	1-163-209-00 1-136-163-00 1-106-351-00	FILM	0.068MF 0.0022MF	5% 5% 10%	50V 50V 100V
C512 C513	1-106-375-12 1-106-375-12	MYLAR MYLAR	0.022MF 0.022MF	10% 10%	100V 100V	C840 C841	1-163-209-00 1-163-209-00	CERAMIC CHIP CERAMIC CHIP	0.0015MF 0.0015MF	5% 5%	50V 50V
C514 C515	1-106-371-00 1-124-925-11	MYLAR Elect	0.015MF 2.2MF	10% 20%	100V 50V	C843 C844 C845	1-124-902-00 1-124-902-00 1-124-477-11	ELECT ELECT ELECT	0.47MF 0.47MF 47MF	20% 20% 20%	50V 50V 25V
C516 C517 C518	1-124-925-11 1-130-480-00 1-163-245-11	ELECT FILM CERAMIC CHIP	2.2MF 0.0056MF 56PF	20% 5% 5%	50V 50V 50V	C846 C847	1-124-907-11 1-124-916-11	ELECT ELECT	10MF 22MF	20% 20%	50V 50V
C518 C519 C520	1-124-927-11 1-163-129-00	ELECT CERAMIC CHIP	4.7MF	20% 5%	50V 50V	C848 C849	1-131-351-00 1-164-182-11	TANTALUM CERAMIC CHIP	4.7MF 0.0033MF	10% 10%	35V 50V
C521 C523 C524	1-124-907-11 1-106-363-00	ELECT MYLAR	10MF 0.0068MF	20% 10%	50V 100V	C1601 C1602	1-124-907-11 1-164-161-11	CERAMIC CHIP		20%	50 <b>V</b>
C525 C526	1-102-116-00 1-102-820-00 1-102-074-00	CERAMIC CERAMIC CERAMIC	680PF 330PF 0.001MF	10% 5% 10%	50V 50V 50V	C1603 C1604 C1605	1-104-348-11 1-128-500-51 1-124-922-11	ELECT ELECT ELECT	15MF 1000MF 1000MF	20% 20% 20%	50 <b>V</b> 50 <b>V</b> 50 <b>V</b>
C527 C528	1-124-122-11 1-102-125-00	ELECT CERAMIC	100MF 0.0047MF	20% 10%	50V 50V	C1606	1-163-009-11 1-124-907-11	CERAMIC CHIP	0.001MF	10%	50V 50V
C529	1-124-910-11	ELECT	47MF	20%	50V	C1608 C1609 C1610	1-124-916-11 1-163-009-11 1-124-927-11	ELECT CERAMIC CHIP ELECT	22MF	20% 10%	50V 50V 50V
						C1611	1-124-482-11	ELECT	33MF	20% 20%	35V
						: C1612	1-136-257-00	FILM	0.0039MF	5%	507



REF.	NO. PART NO.	DESCRIPTION		REMARK		PART NO.	DESCRIPTION	REMARK
C16 C16 C16	14 1-164-232-11 15 1-124-465-00	CERAMIC CHIP 470PF	10%	50V 50V 50V 50V 50V	F16012 F1602	∆ 1-532-777-21 1-533-189-11 <1C>	FUSE, MICRO (SECONDARY) (1.25A/ HOLDER, FUSE	125V)
	<con< td=""><td>CERAMIC CHIP 0.047M</td><td></td><td>507</td><td></td><td>8-759-909-70 8-759-100-60 8-759-801-98 4-382-854-01 8-759-231-58</td><td></td><td></td></con<>	CERAMIC CHIP 0.047M		507		8-759-909-70 8-759-100-60 8-759-801-98 4-382-854-01 8-759-231-58		
CN50 CN50 CN50 CN50	02 *1-564-011-11 04 *1-564-508-11 05 *1-564-509-11 07 1-564-511-11	PLUG, CONNECTOR 3P PIN, CONNECTOR 12P PLUG, CONNECTOR 5P PLUG, CONNECTOR 6P PLUG, CONNECTOR 8P			IC505 IC506 IC507 IC831	8-759-100-60 8-759-801-98 4-382-854-01 8-759-231-58 4-382-854-01 8-759-009-51 8-759-209-69 8-759-509-29 8-759-509-37 8-759-509-91	SCREW (M3X8), P, SW (+); IC504 IC MC14538BF IC TC4S01F IC TC4S11F IC XRU4011BF	
CN5( CN5(	09 *1-564-506-11	PIN, CONNECTOR (B3P- PLUG, CONNECTOR 3P	-VH) 3P		IC832 IC833 IC1601	8-759-509-37 8-759-009-51 8-759-509-91	IC XRU4070BF IC MC14538BF IC XRA10393F	
D501	<dio 8-719-404-46</dio 	DIODE MALLO				< <b>COI</b>		
D502 D503 D504 D506	2 8-719-404-46 8 8-719-404-46 4 8-719-404-46 5 8-719-908-03	DIODE MAIIO DIODE MAIIO DIODE MAIIO DIODE GPO8D			L501 L502 L503 L506	1-410-093-11 1-410-665-31 1-424-625-11 1-412-530-31	INDUCTOR 33MMH INDUCTOR 15UH COIL, CHOKE (PMC) 381.4UH INDUCTOR 27UH	
D507 D508 D511 D512 D514	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110			L1602	1-459-155-00 1-402-785-11	COIL (WITH CORE) 45UH COIL, CHOKE 600UH FERRITE BEAD INDUCTOR 1.1UH	
D520 D521						<tra< td=""><td>NSISTOR&gt;</td><td></td></tra<>	NSISTOR>	
D831 D832 D833	8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAIIO DIODE MAIIO DIODE MAIIO			Q501 Q502 Q503 Q504	8-729-901-01 8-729-901-06 8-729-901-01	TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTA144EK TRANSISTOR DTC144EK	
D834 D835 D836 D848 D160	8-719-109-89 8-719-977-69 8-719-800-76	DIODE RD5.6ESB2 DIODE DTZ24B DIODE 1SS226			Q505 Q508 Q509 Q512	8-729-120-28	TRANSISTOR 2SC1623-L5L6  TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6	
D160 D160	8-719-977-61 8-719-981-00 7 8-719-981-00	DIODE DTZ20B DIODE ERC81-004 DIODE ERC81-004			Q513 Q514 Q515	8-729-313-42	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SD1134-C	
D160	8-719-977-02 8-719-977-49 8-719-404-46	DIODE DTZ15B			Q518 Q519 Q532	4-382-854-01	SCREW (M3X8), P. SW (+); Q515 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6	
D161 D161 D161	11 8-729-101-31 12 8-719-404-46 15 8-719-404-46 17 8-719-977-49	DIODE MA110 DIODE MA110 DIODE MA110 DIODE DTZ15B			Q569 Q570 Q571	8-729-901-00 8-729-901-00	TRANSISTOR IMX1 TRANSISTOR DTC124EK TRANSISTOR DTC124EK	
D161 D162 D162	8 8-719-977-49 20 8-719-801-78 21 8-719-510-12 4-382-854-11	DIODE MAI10 TRANSISTOR N13T1 DIODE MA110 DIODE MA110 DIODE DTZ15B  DIODE DTZ15B  DIODE 1SS184 DIODE D10SC4M SCREW (M3X10), P, SU DIODE 1SS184  DIODE 1SS184  DIODE 1SS184	ıl (±) • 01621		0576 0579 0599 0833	8-729-901-01 8-729-920-48 8-729-920-48	TRANSISTOR DTC144EK TRANSISTOR IMH2 TRANSISTOR IMH2	
D162 D162 D162	22 8-719-801-78 23 8-719-801-78 26 8-719-404-46	DIODE 1SS184 DIODE 1SS184	* (17, <b>Q</b> 1021		Q599 Q833 Q834 Q835 Q836	8-729-210-22 8-729-120-28 8-729-120-28 8-729-255-12	TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC2551-0	
D162 D162	77 8-719-404-46 28 8-719-404-46 35 8-719-404-46	DIODE MAILO DIODE MAILO			Q1601 Q1602 Q1603	8-729-120-28 8-729-120-28 8-729-120-28 8-729-216-22	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SC2688-LK	
D169	99 8-719-404-46	DIODE MA110			01605	8-729-119-80	TRANSISTOR 2SA1162-G TRANSISTOR 2SC2688-LK	
	<fus< td=""><td>E&gt;</td><td></td><td></td><td>41000</td><td>8-729-133-42 4-382-854-01 8-729-120-28</td><td>TRANSISTOR 2SC2334-L SCREW (M3X8), P, SW (+); Q1606 TRANSISTOR 2SC1623-L5L6</td><td></td></fus<>	E>			41000	8-729-133-42 4-382-854-01 8-729-120-28	TRANSISTOR 2SC2334-L SCREW (M3X8), P, SW (+); Q1606 TRANSISTOR 2SC1623-L5L6	



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REI	MARK 
Q1609 Q1610 Q1611	8-729-120-28 8-729-120-28 8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C1623-L5L6 C1623-L5L6 C1623-L5L6 C1623-L5L6 C1623-L5L6			R549 R550 R552 R553 R554	1-216-101-00 1-216-357-00 1-216-061-00 1-216-689-11 1-216-073-00	METAL GLAZE METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE	150K 4.7 3.3K 39K 10K	5%	1/10W 1W F 1/10W 1/10W 1/10W	
Q1613 Q1614 Q1615 Q1616 Q1617	8-729-120-28 8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C1623-L5L6 A1162-G A1162-G A1162-G			R555 R557 R558 R559 R560	1-216-077-00 1-216-057-00 1-216-049-00 1-216-065-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 2.2K 1K 4.7K 330	5%	1/10W 1/10W 1/10W 1/10W 1/10W	
£1918	8-729-216-22	TRANSISTUR ZS	A1162-6			i	1-216-081-00 1-216-053-00	METAL GLAZE METAL GLAZE	22K 1.5K	5% 5%	1/10W 1/10W	
10510	<res< td=""><td>ISTOR&gt;</td><td></td><td>1 /100</td><td></td><td>R563 R564</td><td>1-216-061-00</td><td>METAL GLAZE</td><td>22K 1.5K 3.3K 680 2.7K</td><td>5% 5%</td><td>1/10W 1/4W F 1/10W</td><td></td></res<>	ISTOR>		1 /100		R563 R564	1-216-061-00	METAL GLAZE	22K 1.5K 3.3K 680 2.7K	5% 5%	1/10W 1/4W F 1/10W	
JR510 JR517 R501 R502 R503	<pre></pre>	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	0 5% 47K 5% 47K 5% 47K 5%	1/10W 1/10W 1/10W 1/10W 1/4W	F	R566 R567 R568 R569 R570	1-216-059-00 1-216-025-00 1-216-095-00 1-216-063-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 82K 3.9K 3.9K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
16 3 0 3		METAL GLAZE CARBON	10K 5% 10 5%	1/10W 1/4W	F	R570		METAL GLAZE	68K		1/10W	
R506 R507 R508	1-216-071-00 1-216-059-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 10 5% 8.2K 5% 2.7K 5% 33K 5%	1/10W 1/10W 1/10W		R571 R572 R573 R574	1-216-089-91 1-216-095-00 1-216-063-00 1-216-063-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 82K 3.9K 3.9K 220K		1/10W 1/10W 1/10W 1/10W 1/10W	
R509 R510 R511 R512 R513	1-216-687-11 1-216-683-11 1-216-675-11 1-218-761-11 1-216-065-00	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL GLAZE	10k 52 10 52 2.7k 52 2.7k 52 33k 52 33k 0.5 22k 0.5 10k 0.5 240k 0.5 4.7k 52 120k 0.5 227 0.5	50% 1/10W 50% 1/10W 50% 1/10W 1/10W		R576 R577 R578	1-216-109-00 1-216-105-00 1-249-457-11 1-249-457-11	METAL GLAZE	330K 220K 6.8 6.8	5% 5% 5%	1/10W 1/10W 1/10W 1/4W F	
R514 R515	1-218-754-11 1-216-081-00	METAL CHIP METAL GLAZE	120K 0.5 22K 5%	50% 1/10W 1/10W		R589	1-216-101-00	METAL GLAZE	150K		1/10W	
R516 R517 R518		METAL GLAZE METAL CHIP CARBON	10K 5% 270K 0.5 2.7K 5%	1/10W 50% 1/10W 1/4W	F	R591 R592 R593 R594	1-216-063-00 1-216-033-00 1-216-101-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 220 150K 4.7K 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R519 R520 R521 R522 R523	1-216-085-00 1-216-677-11 1-216-067-00 1-216-107-00 1-216-081-00	METAL GLAZE	33K 5% 12K 0.1 5.6K 5% 270K 5% 22K 5%	1/10W 50% 1/10W 1/10W 1/10W 1/10W		R593 R594 R831 R832 R833 R834 R835 R836	1-216-049-00 1-216-075-00 1-216-065-00 1-216-059-00 1-216-081-00	METAL GLAZE METAL GLAZE	12K 4.7K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R524 R525	1-216-049-00 1-216-434-11	METAL GLAZE METAL OXIDE	1K 5% 1.8K 5%	1/10W 1W	F	R836	1-216-049-00	METAL CLATE	11/	5% 5%	1/10W	
R526 R527 R528	1-216-073-00	*	1K 5% 1.8K 5% 18K 5% 47K 5% 10K 5%	1/10W 1/4W 1/10W	F	R837 R838 R839 R840	1-216-075-00 1-216-049-00 1-216-061-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	12K 1K 3.3K 100K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R529 R530 R531 R532 R533	1-216-073-00 1-216-089-91 1-216-089-91 1-216-097-00 1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 47K 5% 47K 5% 100K 5% 47K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R842 R843 R844	1-216-093-00 1-216-065-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE	68K 4.7K 15K	5% 5% 5%	1/10W 1/10W 1/10W	
R534 R535	1-216-097-00 1-216-053-00	METAL GLAZE METAL GLAZE		1/10W 1/10W		R847 R850	1-216-049-00 1-216-085-00	METAL GLAZE METAL GLAZE	1K 33K	5% 5%	1/10W 1/10W	
R536 R537 R538	1-212-881-11 1-215-867-00 1-216-095-00	FUSIBLE METAL OXIDE METAL GLAZE	100 5% 470 5% 82K 5%	1/4W 1W 1/10W	F	R851 R852 R853 R854	1-208-800-11 1-216-675-11 1-216-105-00 1-218-754-11	METAL CHIP METAL CHIP METAL GLAZE METAL CHIP	5.6K 10K 220K 120K	5% 0.50%	1/10W 1/10W 1/10W	
R539 R540	1-216-095-00 1-216-101-00 1-216-063-00	METAL GLAZE	82K 5% 150K 5% 3.9K 5%	1/10W 1/10W 1/10W	ļ.,	R855	1-216-697-91 1-216-699-11	METAL CHIP	82K 100K		1/10W 1/10W	
R541 R542 R543	1-216-075-00 1-216-065-00	METAL GLAZE METAL GLAZE	12K 5% 4.7K 5%	1/10W		R857 R858 R859 R860	1-216-686-11 1-216-061-00 1-216-436-00 1-216-675-11	METAL CHIP METAL GLAZE	30K 3.3K 3.9K 10K	0.50% 5% 5%	1/10W 1/10W 1/10W 1W F 1/10W	
R544 R545 R546 R547 R548	1-216-101-00 1-216-033-00 1-216-091-00 1-216-121-00 1-216-107-00	METAL GLAZE METAL GLAZE METAL GLAZE	150K 5% 220 5% 56K 5% 1M 5% 270K 5%	1/10V 1/10V 1/10V 1/10V	} } 	R861 R862 R863	1-216-671-11 1-216-675-11 1-249-435-11	METAL CHIP	6.8K 10K 33K	0.50%	1/10W 1/10W 1/10W 1/4W F	

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

• The components identified by 

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

D	HA

REF.NO. PART	NO. D	ESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIP	TION				REMARK
R1503 1-21 R1504 1-21	6-695-11 ME	TAL GLAZE	1 K 68 K	0.50%	1/10W 1/10W		{	1-216-643-11	METAL CH		470	0.50%	1/10W	
R1506 1-21	6-089-91 ME 6-667-11 ME 6-081-00 ME			0.50% 5%	1/10W 1/10W 1/10W		R1659	1-216-063-00 1-216-049-00	METAL GL METAL GL METAL GL	.AZE	22K 3.9K 1K	5%	1/10W 1/10W 1/10W	
R1509 1-21 R1510 1-24	9-425-11 CA	TAL GLAZE TAL GLAZE RBON	10K 4.7K 4.7K 220 1K	5% 5% 5%	1/10W 1/10W 1/4W		R1661	1-216-649-11 1-216-065-00 1-216-073-00	METAL CH METAL GL	AZE	820 4.7K 10K	1.	1/10W 1/10W 1/10W	
R1511 1-21 R1512 1-21	6-033-00 ME 6-049-00 ME				1/10W 1/10W	•			IABLE RES			<i>J K</i> s	1/ 10 <del>W</del>	
R1519 1-21 R1520 1-21 R1601 1-21	6-025-00 ME	IAL CHIP	47 100 1.5K 27K 18K	5% 5% 5% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W		RV502 RV503 RV504	1-238-019-11 1-241-765-11 1-241-763-11 1-224-250-XX 1-241-759-21	RES, ADJ RES, ADJ RES, ADJ	, CARB , CARB , CERM	ON 471 ON 221 ET 4. L GLA	K 7K Ze 2.2k	· · · · · · · · · · · · · · · · · · ·	
R1604 1-24 R1605 1-21 R1606 1-21	6-070-00 ME 6-070-00 ME	TAL CHIP RBON TAL GLAZE TAL GLAZE TAL GLAZE	6.8K 22K 7.5K 7.5K 8.2K	0.50% 5% 5% 5% 5%	1/10W 1/4W 1/10W 1/10W 1/10W		RV507 RV508 RV509 RV511	1-241-628-11 1-241-761-11 1-241-768-11 1-241-763-11	RES, ADJ RES, ADJ RES, ADJ RES, ADJ	, CARB , CARB , CARB	ON 2.2 ON 1K ON 220 ON 4.	2K Ok 7k		
R1609 1-21 R1610 1-21 R1611 1-21	6-057-00 ME 6-057-00 ME	TAL GLAZE TAL GLAZE TAL GLAZE TAL GLAZE TAL OXIDE	4.7K 6.8K 2.2K 2.2K 2.2K 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 3W	F	RV514 RV515 RV516 RV517	1-241-763-11 1-238-019-11 1-241-768-11 1-241-763-11 1-241-760-11	RES, ADJ RES, ADJ RES, ADJ RES, ADJ	, CARB , CARB , CERM , CARB	ON 471 ON 220 ET 4.7 ON 470	K DK 7K D		
R1614 1-21 R1615 1-21 R1616 1-21	6-067-00 ME 6-657-11 ME 6-629-11 ME	TAL GLAZE TAL GLAZE	100 5.6K		1/10W 1/10W 1/10W 1/10W 1/10W		RV831 RV832 ■RV833A	1-241-763-11 1-228-997-00 1-241-764-11 3-738-015-01	RES, ADJ RES, ADJ RES, ADJ COVER (	, CARB , META , CERM , META	ON 4.7 L GLAZ ET 101 L GLAZ	7K ZE 100k K ZE Ron vr.		
R1620 1-210 R1621 1-210 R1622 1-210	6-065-00 ME' 6-073-00 ME' 6-073-00 ME'	TAL GLAZE TAL GLAZE TAL GLAZE TAL GLAZE		5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV1601 RV1602 ■RV1603/	1-241-762-11 1-241-761-11 A *3-738-015-01	RES, ADJ RES, ADJ	, CERMI , CARBI . METAI	ET 2.2 ON 1K L GLAZ	2K 7F		
R1625 1-210 R1626 1-210 R1627 1-210	6-065-00 ME' 6-049-00 ME'	TAL GLAZE TAL GLAZE TAL GLAZE	100K 3.3K 4.7K 1K 10K	5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W		RY1601	<rel. 1-755-022-11</rel. 		OWER			·	
R1630 1-210	5-683-11 ME' 5-683-11 ME'	TAL CHIP	22K 22K	0.50% 0.50% 5%	1/10W 1/10W		T1601	<trai< td=""><td>NSFORMER&gt; Transfor</td><td></td><td>RIVE</td><td></td><td></td><td></td></trai<>	NSFORMER> Transfor		RIVE			
R1632 1-210	6-057-00 ME' 6-042-00 ME' 5-109-00 ME'	IAL GLAZE	2.2K 510 330K	2%	1/10W 1/10W 1/10W		l I	*********				*****	*****	*****
R1635 1-210 R1636 1-210 R1640 1-210	6-097-00 ME' 6-073-00 ME' 6-063-00 ME'	TAL GLAZE TAL GLAZE TAL GLAZE	120K 100K 10K 3.9K 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W			*A-1371-782-A *4-348-208-00	******	*****				
R1642 1-216	6-073-00 ME	TAL GLAZE	10K 6.8K	5%	1/10W 1/10W		CNOO1	<coni 1-506-478-11</coni 	NECTOR>	WECTOD	120			
R1644 1-216 R1645 1-216	6-069-00 ME1 6-073-00 ME1	TAL GLAZE TAL GLAZE	6.8K 10K 10K	5%	1/10W 1/10W 1/10W			1-564-007-11						·.
	6-685-11 ME'	TAL CHIP	27K	0.50%			2001	< DIOI						
R1649 1-216 R1650 1-216	6-069-00 ME' 6-069-00 ME'	TAL GLAZE TAL GLAZE	6.8K 6.8K 6.8K 6.8K	5% 5%	1/10W 1/10W 1/10W 1/10W		D001 D002	8-719-920-05 8-719-109-68	DIODE SLI DIODE RD: ISTOR>	P281C- <u>1</u> 3.6ESB	50 1			
R1653 1-216	5-069-00 ME'	TAL GLAZE		5%	1/10W 1/10W			1-216-295-91	METAL GL		2	5%	1/10W	
R1654 1-208 R1655 1-216	8-812-11 ME' 6-081-00 ME'		18K 22K	0.50% 5%	1/10W 1/10W		JW024 R001	1-216-295-91 1-247-713-11	METAL GL. CARBON		) 1 K	5%	1/10W 1/4W	

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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R002 R003 R004	1-216-295-91 1-216-295-91 1-216-081-00	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 22K 5%  IABLE RESISTOR>	1/10W 1/10W 1/10W		C1117 C1118	1-124-589-11 1-164-004-11	CERAMIC CHIP 75PF ELECT 47MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0082MI CERAMIC CHIP 15PF	5% 20% 10% 10% 5%	50V 16V 25V 50V 50V
RV001 RV002 RV003 RV004 RV005	1-223-504-21	RES, VAR, CARBON 20K			C1122 C1123 C1130	1-163-097-00 1-163-097-00	CERAMIC CHIP 15PF CERAMIC CHIP 5PF CERAMIC CHIP 15PF CERAMIC CHIP 15PF CERAMIC CHIP 15PF	5% 0.25PF 5% 5% 5%	50V 50V 50V 50V 50V
RV009	1-223-735-11 1-226-773-11 1-226-773-11 1-226-773-11 1-226-773-11	RES, VAR, CARBON 20K RES, ADJ, METAL GLAZE 22K RES, ADJ, METAL GLAZE 22K RES, ADJ, METAL GLAZE 22K RES, ADJ, METAL GLAZE 22K			CN1101		NECTOR>  CONNECTOR, BOARD TO E	BOARD 12P	
RV011 RV012	1-226-773-11 1-226-773-11 <swi< td=""><td>RES, ADJ, METAL GLAZE 22K RES, ADJ, METAL GLAZE 22K</td><td></td><td></td><td></td><td>8-719-404-46 8-719-404-46</td><td>DIODE MA110</td><td></td><td></td></swi<>	RES, ADJ, METAL GLAZE 22K RES, ADJ, METAL GLAZE 22K				8-719-404-46 8-719-404-46	DIODE MA110		
S001 S002 S003 S004 S005	1-554-419-00 1-554-419-00 1-554-419-00 1-554-419-00	SWITCH, PUSH (1 KEY)			IC1101	<1C> 8-752-056-67 <c01< td=""><td>IC CXA1214P</td><td></td><td></td></c01<>	IC CXA1214P		
S006	1-554-419-00	SWITCH, PUSH (1 KEY)	******	******	L1102 L1103	1-408-411-00 1-404-496-00 1-404-496-00	INDUCTOR 15UH		
		X BOARD, COMPLETE			L1110	1-412-008-31	INDUCTOR CHIP 150H INDUCTOR CHIP 150H		•
CN21 :		NECTOR> PLUG, CONNECTOR 3P				<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td></tra<>	NSISTOR>		
	<d10< td=""><td>DE&gt;</td><td></td><td>·</td><td>Q1102 Q1103 Q1104</td><td>8-729-120-28 8-729-216-22 8-729-216-22</td><td>TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5 TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G</td><td>5L6</td><td></td></d10<>	DE>		·	Q1102 Q1103 Q1104	8-729-120-28 8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5 TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	5L6	
D21 D22 D23	8-719-023-78 8-719-023-78	DIODE SEL3810DLC05 DIODE SEL3810DLC05 DIODE SEL3810DLC05	*******	******	Q1107	8-729-109-44	TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2SK94-X4 TRANSISTOR 2SC1623-LE	51.6	
		S BOARD, COMPLETE			(1100		ISTOR>	,20	
C1102	1-163-119-00 · 1-164-004-11	CERAMIC CHIP O.1MF	10% 2	50V 25V	R1101 R1102 R1103 R1104 R1105	1-216-053-00 1-216-067-00 1-216-059-00 1-216-073-00 1-216-031-00	METAL GLAZE 2.7K 5 METAL GLAZE 10K 5	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	
C1104 C1105 C1106 C1107	1-124-589-11 1-163-031-11 1-163-114-00 1-163-101-00 1-164-004-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 75PF CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF	5% 5 5% 5 10% 2	60V 60V 60V 50V	R1106 R1107 R1108 R1109 R1110	1-216-059-00 1-216-071-00 1-216-039-00 1-216-063-00 1-216-069-00	METAL GLAZE 3.9K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	
C1111 C1112	1-163-018-00 1-126-160-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 100PF CERAMIC CHIP 0.0056MF ELECT 1MF	5% 5 10% 5 20% 5	50V 50V 50V	R1111 R1112 R1113 R1114 R1115	1-216-065-00 1-216-059-00 1-216-069-00 1-216-055-00 1-216-061-00	METAL GLAZE 6.8K 5 METAL GLAZE 1.8K 5	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	
C1114		CERAMIC CHIP 120PF CERAMIC CHIP 27PF	5% 5 5% 5	50V 50V 25V	R1116 R1117 R1118	1-216-069-00 1-216-061-00 1-216-073-00	METAL GLAZE 6.8K 5	5% 1/10W 5% 1/10W 5% 1/10W	

The components identified by shading and mark ∆ are critical for safety. Replace only with part number specified.

• The components identified by 

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

REF	.NO. PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION			REM	IARK
R1 R1	119 1-216-049-00 120 1-216-097-00 121 1-216-121-00 122 1-216-039-00 123 1-216-065-00	METAL GLAZE 100K 5% METAL GLAZE 1M 5%	1/10W 1/10W 1/10W 1/10W 1/10W			<1C>		1 06C			
R1 R1 R1	124 1-216-029-00 125 1-216-029-00 126 1-216-053-00 127 1-216-043-00 128 1-216-049-00	METAL GLAZE 150 5% METAL GLAZE 150 5% METAL GLAZE 1.5K 5% METAL GLAZE 560 5%	1/10W 1/10W 1/10W 1/10W 1/10W		IC651A	1-809-086-12 18-759-908-15 18-759-045-81	IC TL431CLP IC TLP732GR-L	.F2			
R1 R1 R1	129 1-216-091-00 131 1-216-073-00 132 1-216-073-00 133 1-216-073-00 134 1-216-091-00	METAL GLAZE 10K 5% METAL GLAZE 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		L602 A L651 A	1-424-574-11	COIL, CHOKE (				
	∠V A D	IABLE RESISTOR>				<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td></td></tra<>	NSISTOR>				
RV		RES, ADJ, CARBON 4.7K			Q601 A	8-729-322-18	TRANSISTOR 2S	K1402A			
RV	1102 1-241-628-11	RES, ADJ, CARBON 2.2K			[ ] ! !	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td></res<>	ISTOR>				
	101 1-404-584-11	NSFORMER> COIL ************************************	:*****		R602 A R603 A R604 A	1-205-940-51 1-205-940-51 1-215-904-11 1-215-904-11 1-212-865-61	CEMENT METAL OXIDE METAL OXIDE	1.5 5% 1.5 5% 100K 5% 100K 5% 22 5%	5W 5W 2W 2W 1/4W	4 4 4	
					! _	1-247-805-91	CARBON			-	
	4-812-134-11	******** RIVET NYLON, 3.5¢			R607 A R608 A R609 A R610 A	1-260-128-91 1-260-128-91 1-215-904-51 1-207-455-11	CARBON	82 5% 270K 5% 270K 5% 100K 5% 0.22 10	1/2W 1/2W 2W % 1/2W	F	
	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td>R611 A</td><td>1-249-395-11</td><td>CARBON (SMALL)</td><td>15 5% 33 5% 100K 5%</td><td>1/4W 1/4W</td><td></td><td></td></cap<>	ACITOR>			R611 A	1-249-395-11	CARBON (SMALL)	15 5% 33 5% 100K 5%	1/4W 1/4W		
06: 06: 06:	03 A 1-161-741-00 04 A 1-161-741-00 05 A 1-161-741-00	CERAMIC 0.001MF B CERAMIC 0.001MF B	10% 10% 10%	250V 400V 400V 400V	R613 A R614 A R620 A	1-215-904-51 1-247-815-91 1-218-265-11	METAL OXIDE	220 5% 8.2M 5%	1/4W 1W	F	
C6 C6	08 & 1-162-599-12 09 & 1-162-599-12 10 & 1-125-724-11 11 & 1-136-206-21 12 & 1-124-910-51	CERAMIC 0.0047MF ELECT 180MF METALIZED FILM 0.033MF	20% 20% 20% 10%	400V 400V 400V 630V	R652 A R653 A R654 A	1-215-886-51 1-215-886-51 1-260-107-91 1-260-107-91 1-247-867-91	METAL OXIDE CARBON CARBON	100 5% 100 5% 4.7K 5% 4.7K 5% 33K 5%	2W 2W 1/2W 1/2W 1/4W	F	
C6 C6	13 A 1-137-190-91 14 A 1-137-190-91 15 A 1-130-471-91	METALIZED FILM 0.22MF METALIZED FILM 0.22MF PE TEREPHTHALATE 0.001MF		50V 50V 50V	R657 ▲	1-247-867-91 1-247-837-91 1-249-435-11	CARBON CARBON CARBON (SMALL)	33K 5% 1.8K 5% 33K 5%	1/4W		
C6	16 A 1-130-479-00 51 A 1-161-825-11 52 A 1-128-486-51	FILM 0.0047MF CERAMIC 220PF B ELECT 680MF	5% 10% 20%	50V 500V 50V		<var< td=""><td>IABLE RESISTOR</td><td>&gt;</td><td></td><td></td><td></td></var<>	IABLE RESISTOR	>			
63	53 <u>A</u> 1-128-485-51		20%	50V 50V	<b>⊠</b> RV651 <u>∧</u>	1-237-443-11	RES, ADJ, CAR	BON 1K			
							NSFORMER>				
		NECTOR>					TRANSFORMER,				
		HORIZONTAL PIN ASSY 3P PLUG, CONNECTOR 3P			******	********	**************************************		******	*****	****
	<d10< td=""><td></td><td></td><td></td><td></td><td></td><td>SWITCHING REG</td><td>ULATOR (S</td><td>OPS-1021</td><td>(A))</td><td></td></d10<>						SWITCHING REG	ULATOR (S	OPS-1021	(A))	
D6 D6 D6	01	DIODE 1SS119TD DIODE ERA38-06TP1			1 🔝	1-426-043-12	COIL, DEGAUSS DEFLECTION YO MAGNET	ING			
		DIODE RD20ES-T1B3			Δ	1-576-232-11 1-690-871-11	FUSE (H.B.C.) CABLE (MINI D	(5.0A/25 IN) 8P	0V)		

# PVM-9041QM/9044QM

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

REF.NO. PART NO.	DESCRIPTION	REMARK
1-941-866-12 1-941-913-02 V901 A 8-737-154-05 V901 A 8-737-651-05	CONNECTOR ASSY CORE ASSY, FERRITE PICTURE TUBE (09NDX) PICTURE TUBE (09FX)	(PVM-9041QM) (PVM-9044QM)

-Villariya ja toopata.

# ACCESSORIES AND PACKING MATERIALS

▲ 1-590-910-11 1-690-871-11 2-990-241-02 3-170-078-01 *3-704-301-01	CORD SET, POWER (10A/250V) CABLE (MINI DIN) 8P HOLDER (A), PLUG HOLDER (B), PLUG BAG (STANDARD), PROTECTION
3-754-506-24 4-034-835-01 *4-034-955-01 *4-034-956-01 *4-046-435-01	MANUAL, INSTRUCTION PLATE, TALLY CUSHION (UPPER) (ASSY) CUSHION (LOWER) (ASSY) INDIVIDUAL CARTON (PVM-9041QM

\*4-046-436-01 INDIVIDUAL CARTON (PVM-9044QM)